

GARDINER, SONS & Co., Ltd.,

BRISTOL.

WAREHOUSES AND SHOWROOMS,

NELSON STREET.

Telephone: No. 278.

ALL SAINTS' IRONWORKS.

ALL SAINTS' STREET.

Telephone: No. 762.

MIDLAND IRONWORKS,

WILLWAY STREET.

Telephone : No. 867.

Containing one of the targest stocks in the Kingdom of Castings, Brass Foundry, Chimney Pieces, Grates, Kitchen Ranges, Gas Fittings, and every description of Builders' Ironmongery.

Specialities:—Wrought Iron Sashes, Casements, Gates and Railings, Vanes, Finials, Lifts, and Ornamental Metal Work.

Specialities:—Constructional Ironwork, Girders, Roofs, and Iron Doors. A large stock of Rolled Steel Joists, Plates, Angles, Tees, and Bar Iron.

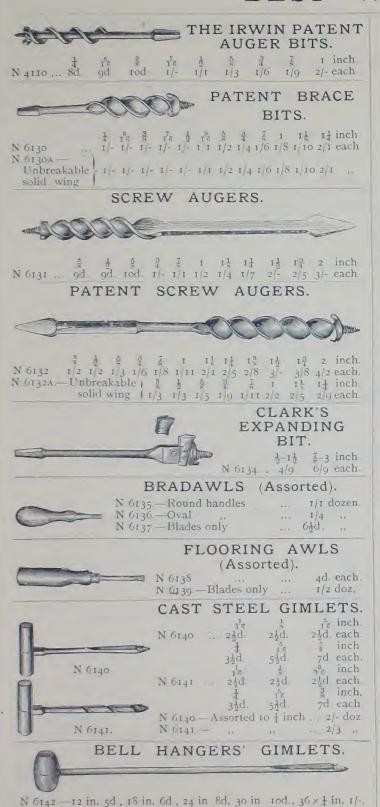
Former Price Lists and Quotations withdrawn. Prices are subject to such alterations as may be necessitated by fluctuations in the Market.

Hours of Business—Saturdays, EIGHT to TWO o'clock; other days, EIGHT to SIX o'clock.

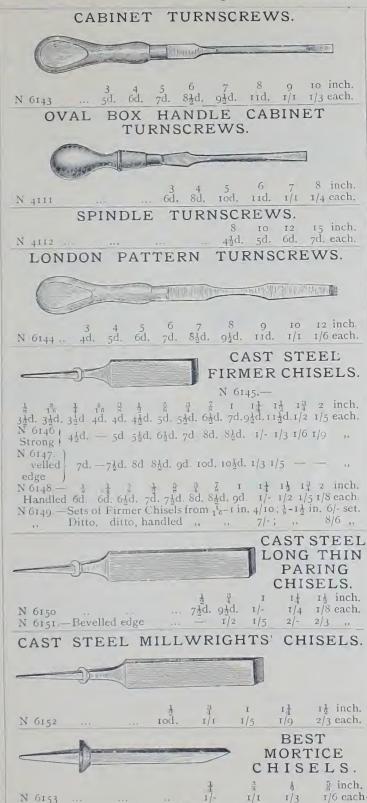
CLOSED ON BANK HOLIDAYS.



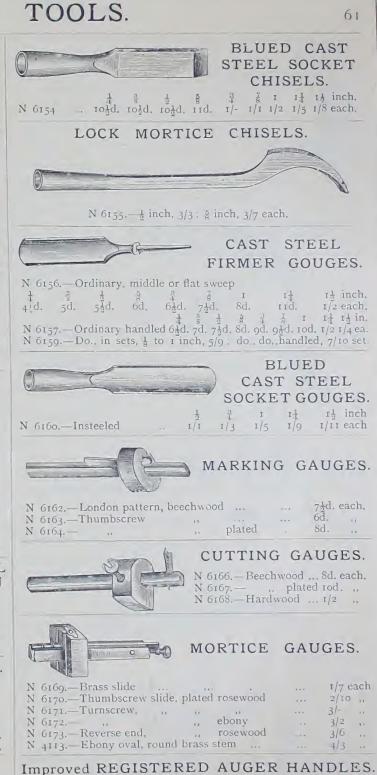




18 in, 71d, 24 in, 10d. 30 in 1/1, 36 × 1/6 in, 1/3 each.



Sets of 1 to 1 inch, 8/6 set.

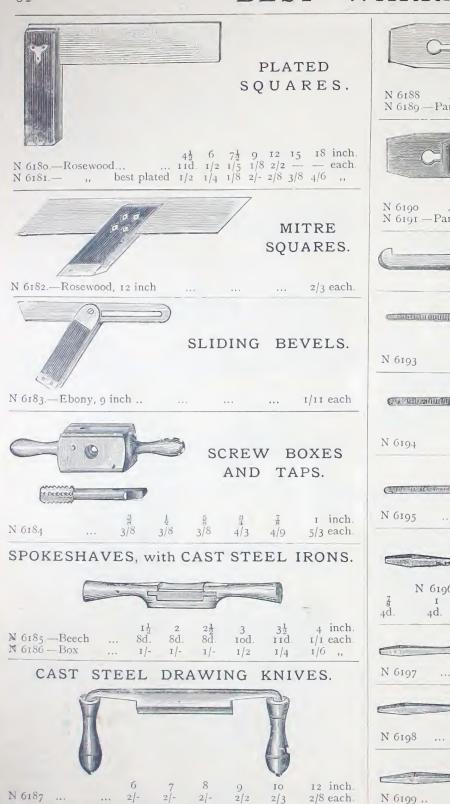


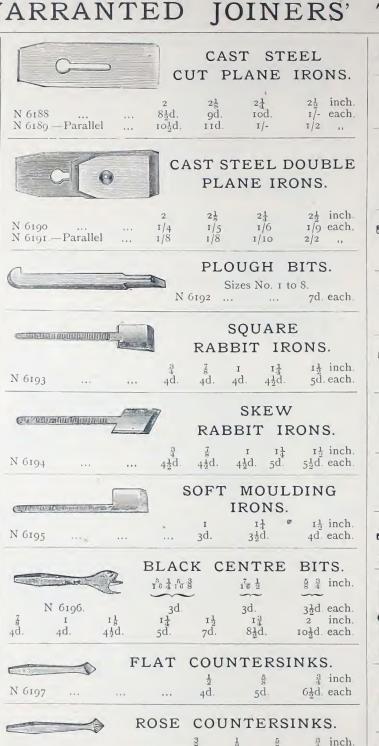
Adjustable for any size.

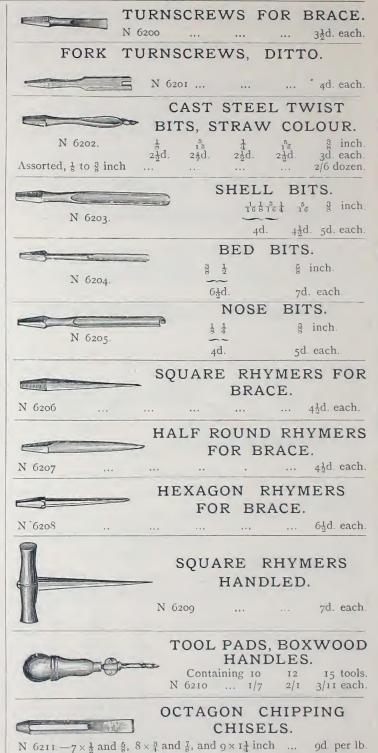
N 6176.

Beechwood . 1/8 each.

BEST WARRANTED JOINERS' TOOLS.







MASONS' PLUGGING CHISELS.

N 4120.— $10 \times \frac{1}{2}$, $12 \times \frac{5}{2}$ inch ... 1/2 per lb.

The varieties described represent in many cases but a small selection from those that can be supplied. Further details and special prices for large quantities will be sent on receipt of requirements.

... 4½d. 4½d. 6d.

... ... 4½d 5½d each

SNAIL COUNTERSINKS.

8d. each.

§ inch.

SPIRIT LEVELS. 10 12 inch. N 6213 - Brass plated top ... 1/- 1/3 1/6 each N 6214 - ., ., best 2/- 2/5 N 6215 — plumb \ 1/6 1/10 2/3 ... N 6216 and level, with field sight \ 3/4 4/- 4/8 ... IMPROVED SPIRIT LEVEL. N 4125—Ditto, brass tipped top and bottom This level is proved or tested on the top as well as on the base so that it can be used for testing overhead work from the top of the level in places where it is not possible to place the level on its base. Builders, Plasterers, Carpenters, Joiners, Engineers, &c., will and this level of very great service. MASONS' BEST BOXWOOD RULE PLUMB SPIRIT LEVELS. 6 9 12 inch 1/9 2/- 2/6 each. STEEL POLE KENT AXES. N 11 13 2 21 lbs.and 6218. 1/2 1/- 11d. 91d. per lb. N 6219 - Ditto, handled 1½ 2 2½ 3 3½ 4 lbs. 2/2 2/4 2/8 3/- 3/6 4/-each Solid Steel KENT FELLING AXES. N 4126 - 4 lb to 7 lb ... 111d per lb. HOUSE ADZE. N 6220. Size Nos. SAW SETS. N 6222. Beech handle, 83d each.

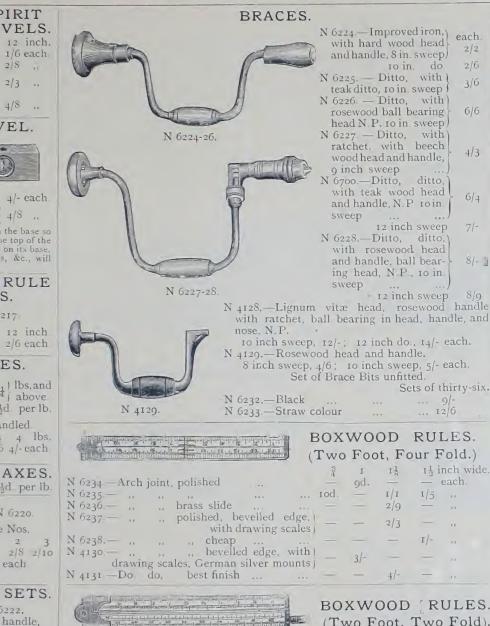
N 6221 - Bright, 6d, each

MORRILL'S PER-

FECT SAW SETS.

N 4127.-3/- each.

N 6223.—American, 4/- each.



N 4128. Lignum vitæ head, rosewood handle with ratchet, ball bearing in head, handle, and Sets of thirty-six. 3 1 11 11 inch wide. BOXWOOD RULES. (Two Foot, Two Fold). 15 inch wide. N 6240 - Arch joint, bevelled edge rod. each. N 6241.— ,, brass slide ... N 6239.— ,, bevelled edge, polished .. 1/6 1/-N 6243. - Ditto, with tables for timber measuring MEASURING TAPES. 33 50 66 100 feet N 6244 — Linen 3/4 — 5/- — each N 6245 — Metallic 5/3 — 7/6 10/6 ...

TINMAN'S HAND SHEARS. 8 10 12 14 inch. N 6284.— 1/8 2/3 3/- 4/- each. N 6285 - Best Lancashire-2/- 3/- 4/6 5/10 ., BRIGHT CALLIPERS. 3 4 5 inch. 5d. 5d. 5d. 5d. each. N 6246A.—In and outside .. 10d. 10d. 10d., BRIGHT COMPASSES. ... 8d. 9½d. 1/- each Black WING COMPASSES. 6 7 8 inch N 6248. ... 1/2 1/4 1/7 each. N 4134 — Bright wing with ad-1/2 1/4 .. justing nut ... BENCH STOP. N 6249 $-3\frac{1}{4} \times 1\frac{5}{9}$ inch, 11d. each PLYERS. N 6250.—Bright, 15 6 7 8 inch. flat nose ...\ 8d 10\d 1/2 1/6 each. N 6251.—Black bell 1/5 1/7 2/2 2/8 ., N 6252,—Do., Best | 1/8 2/- 3/- 4/- ... Black TOWER PINCERS. 6 7 8 9 inch. N 6253. ... 91d 1/- 1/3 1/7 each Black CUTTING PINCERS. 6 7 8 9 inch. .. 1/2 1/5 1/11 2/5 each. N 6255.—Best Lancashire 1/6 1/9 2/- 2/8 ,, STEELED COACH WRENCHES. S 10 12 14 inch N 6256—Bright 2/3 3/3 4/- — each. N 6257.—Black, better ... 3/3 4/- 5/- 6/- ... N 6258—Best, double strap, railway — 7/3 8/9 10/6 ... N 6259—Wood handled, American — 1/3 — ...

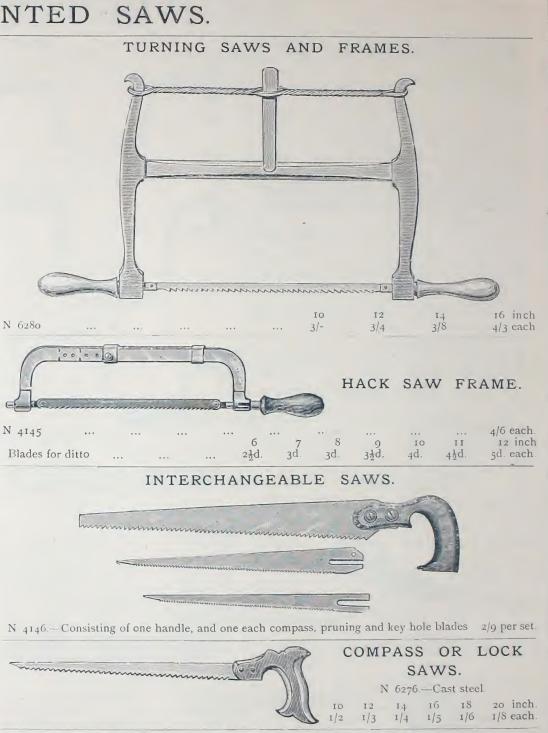


STEEL DOUBLE JAW COACH OR AXLE CAP WRENCH.

12 15/3 each. 10/6 12/6 N 4135. ...

The varieties described represent in many cases but a small selection from those that can be supplied. Illustrations are about one-sixth full size. Further details and special prices for large quantities will be sent on receipt of requirements.

13/- each. TENON SAWS. N 4143.—Cast steel, iron back 3/2 3/2 3/4 3/8 each. N 6272.—Best do., do. 3/4 3/4 3/6 3/9 ... N 4144 — Caststeel, brass back 4/- 4/- 4/6 5/- ... N 6274.—Best do., do. 4/34/34/85/3,



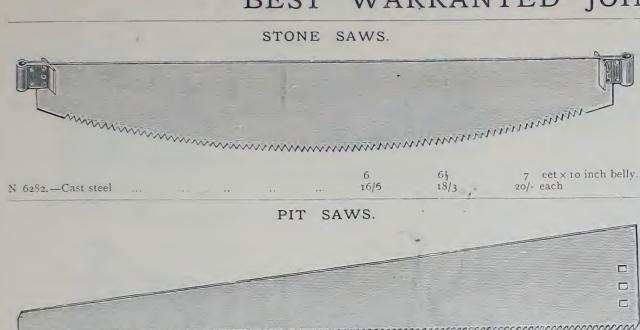
N 6174.—Beechwood N 6175.- Ebony ...

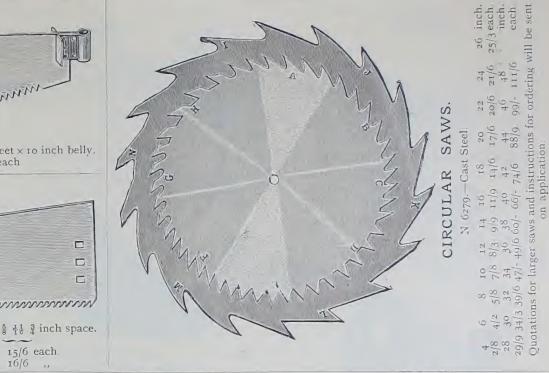
SAW PADS.

KEYHOLE SAWS.

N 6277.—Cast steel, assorted to 12 inch ... 3d. each

Illustrations are about one-sixth full size. The varieties described represent in many cases but a small selection from those that can be supplied. Further details and special prices for large quantities will be sent on receipt of requirements.





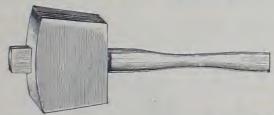


N 6283.-61 feet x 12 inch heel ...

EXETER PATTERN HAMMERS.

N 6287 ... 73d. 8d 9d 103d. 1/1 1/4 1/7 1/11 2/3 each.

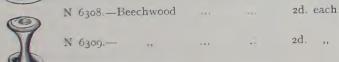
CARPENTERS' MALLETS.



N 6286.—Beechwood, square morticed $\frac{4}{1/-1/2}$ $\frac{4^{\frac{1}{2}}}{1/3}$ $\frac{5}{1/5}$ $\frac{5^{\frac{1}{2}}}{1/6}$ each,



CHALK LINE REELS.





WARRINGTON PATTERN HAMMERS.

Size Nos. 0 1 2 3 4 5 6 7 8 9 10 N 6288. — Solid) 81d. 9d. 10d. 11d. 1/- 1/2 1/3 1/5 1/8 2/-2/3 each N 6289.—Heads | 7d. $7\frac{1}{2}$ d. $8\frac{1}{2}$ d. $9\frac{1}{2}$ d. $10\frac{1}{2}$ d. $1/-1/1\frac{1}{2}$ 1/ $3\frac{1}{2}$ 1/ $6\frac{1}{2}$ —— ...

15/6 each.

16/6 ,,

BRADAWL HANDLES.



N 6312.—Round polished, beechwood,) 9d. with brass ferrules, assorted dozen. N 6313.- Oval ditto, ditto 1/- ...

FILE HANDLES.

N 6314.-With gun barrel ferrules,) od. assorted ... dozen.

CHALK LINES.

60 go feet 2½d. N 6310 - Cotton - each N 6311 - Hard brown 3d. "

CANTERBURY PATTERN HAMMERS.



Size Nos. I 2 4 6 ... I/- I/2 I/6 2/- 2/6 3/- each. N 6290.—Black

CHISEL HANDLES.



N 6315.—Round polished ash, with 1 1/3 brass ferrules, assorted dozen. N 6316.—Ditto box, ditto ... N 6317.-Octagon, polished, beech, 1 1/10 with brass ferrules, assorted dozen N 6318.—Ditto box, ditto 3/- ...

LONDON PATTERN TURNSCREW HANDLES.



N 6319.—Polished beech, with brass ferrules, slit and bored.

8 inch. 3d. 3½d. 4½d. 5d each.

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IRON AND WOOD PLANES AND SPOKESHAVES.



N 4156. - Iron Bull Nose Rebate Plane, 1 inch, 1/2 each.



N 4157.—Iron Block Plane, adjustable, 11 inch, 1/3 each. N 4158.—Ditto, without adjustment, 10d. each.



N₄159.—Iron Block Plane, adjustable, 1³/₄ inch, 1/10 each.
N₄160.—Ditto, without adjustment, 1/3 each.



N .1161.—Iron Smoothing Plane, 2 inch, 6/9 each.



N 4162 — Iron Jack Plane, 14×2 inch, 8/- each. N 4163 — Ditto Trying do., $22 \times 2\frac{3}{8}$ inch, 11/6 ,,



N 4164.—Flexible Steel Plane, adjustable for circular, hollow or smooth at any sweep, 8/3 each.



N 4165 —Iron Shoulder Plane, with patent adjustment, 8 × 1½ inch, 13/- each.
N 4166 — Ditto, without adjustment, 10/9 each.



N 4167.—Iron Duplex Rebate Plane and Fillister, $8\frac{1}{2} \times r\frac{1}{2}$ inch, 4/9 each.

By removing the arm to which the fence is secured, a Handled Rebate Plane is had, and with two seats for the cutter, so that the tool can be used as a Bull Nose Rebate if required.

The arm to which the fence is secured can be screwed into either side of the stock, thus making a superior right or left hand Fillister with adjustable spur and depth gauge.



N 4168.—Iron Smoothing Plane, walnut, fitted with C.S. parallel iron.

2 2½ 12½ 12½ inch. 12/9 13/9 15/- each.



N 4169.—London pattern iron Smoothing Plane, rosewood fitted, 21 inch, 24/3 each-

N 4170.—Ditto, ditto, gun metal ditto, ebony fitted, 2\frac{1}{4} inch, 26/9 each.

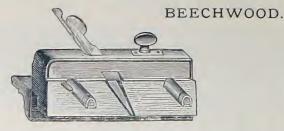
N 4171.—Iron, without handle, 21 inch, 21/6 each. N 4172.—Gun metal, ditto, 24/3 each.



N 4173.—Iron Spokeshave, double iron, raised handle, 10 × 2½ inch, 9½d. each.



N 4174 — Iron Spokeshave, double iron, hollow face, 10 × 24 inch, 8d each



N 6299.—Sash Fillister, double hooped 14/- each.
N 6300.— ,, ,, left hand, wedge tooth, and shoulder boxed ...
N 6301.—Moving Fillister, shoulder boxed and slip top ... 8/- ,,

a to g

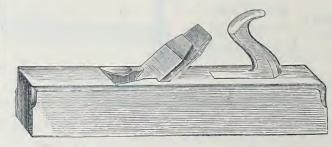
... 2/8



6297.—Ditto, ditto, ditto, improved stop, skate end ...) 22/6 ,...



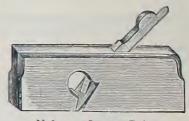
N 6291.—Smoothing, with double iron. $1\frac{1}{2}$ 2 $2\frac{1}{8}$ $2\frac{1}{4}$ $2\frac{1}{2}$ inch. 3/9 3/9 4/- 4/3 5/3 each. N 4175.—Compass smoothing, ditto, 2 inch, 3/10 each.



I inch.

2/11 3/2 3/5 each.

N 6302.—Jack, with double iron, 17 x 21 inch, 5/3 each.



N 6292.—Square Rebate

I I $\frac{1}{4}$ I $\frac{1}{2}$ inch.
2/6 2/8 2/10 each.

N 6293.—Skew rebate, same price.

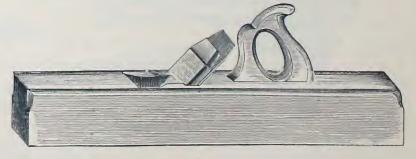


N 6294. - Bead

N 6306. each. Iron Chariot, 1½ in., 7/5 N 6307. Gun-metal, ditto, 8/6



N 6304. Iron Bull Nose, 1in., 5, 9 1¼ in., 7/- each N 6305. — Gun metal, do. 1 in., 7/6; 1¼in., 8/6 each



N 6303.—Trying, with double iron, 22 × 21 inch, 6/9 each.

Prices of Planes are for the best quality; a cheaper make can be suppled.

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SUNDRY TOOLS.



IMPROVED HOLLOW AUGER.

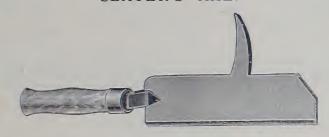
N 4180 § 3 3 1 11 11 inch 4/8 4/8 5/4 5/4 6/8 6/8 each. (Including bits)



IMPROVED SPOKE TRIMMER.

N 4181 ... 2/9 each

SLATER'S AXE.

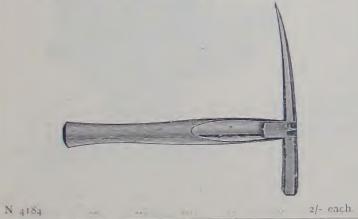


N 4182 -- 9 inch ... 3/- each

SLATER'S RIPPER.



SLATER'S HAMMER WITH CLAW.



LATH HAMMER.



CAST STEEL BRICK HAMMER.



.. 1/9 each N 4186 If with Wood Handle ... 2/- each.



CAST STEEL STONE MASON'S HAND HAMMER.

N 4187.—3. 3½, 4 lb. ... 6d. per lb.



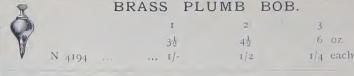
CAST STEEL MASON'S WALL HAMMER.

N 4188 3. 32. 4 lb ... 6d per lb.



BRASS TRAMMEL HEAD WITH PENCIL HOLDER.

 $\frac{0}{16} \times \frac{1}{4} \quad \frac{11}{16} \times \frac{5}{16} \quad \frac{13}{16} \times \frac{7}{16} \text{ inch.}$ N 4189 1/10 2/2 2/10 each.



LEAD PLUMB BOB.

N 4195 — 1 lb 8d each

BENCH OIL CAN, BRASS BOTTOM.

N 4196 5d each.



ENGINEERS' OIL CAN WITH COPPER SPOUT.

rod. 1/-1/3 1/6 1/8 each N 4197

THE "EASY" BOLT CLIPPER.



For N 4198



TOOL BASKET.

Canvas lined, with Pocket N 4199 10.d. 1/1 1/4 1/7 each. Extra strong do

27 30 33 inch N 1200 1/6 1/9 2/- e.ch.

LETTERS & FIGURES FOR | CAST STEEL STAMPS FOR GENERAL PURPOSES.

N 4190 LETTERS N 4191 FIGURES. Per set of o Per set of 27 ½ in 4/4 ½ in . . . 1/6 .. 6/3 3 in. ... 2/9 16 In .. in- --i's in $\frac{1}{2}$ in ... 17/6 $\frac{1}{2}$ in ... 7/9Steel included.

JOINERS, ENGINEERS, TINMEN AND OTHERS.

N 4192. Per Letter Per Letter Stocks or Steel and Forgings charged extra.

BURN BRANDS, NAMES AND INITIALS, BEST WROUGHT IRON, WITH A LONG HANDLE TO EACH.

N 4193									
	P	er	Letter			P	er	Letter-	
32	in			I/-		Il in-			3/3
1	in.			1/3					3/6
5	in.			1/6		Thin-			4/-
3	in-			1/0		13 in			4/6
8	in.			2/-		ry in			5/=
I	in			2/6		ış in			5/6
I	in.		.=	3/-	_	2 in,		***	6/-

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BLOW PIPES AND LAMPS.

PAQUELIN PAINT REMOVING AND PLUMBER'S LAMP.



N 4206.

Can be used in any position. Gives 1800 degrees of heat. Cost to work, rd. for four hours. It only weighs 20 ozs. Use Benzoline only.

No. 1.—Burns 1 hour 10/6 each.

If with Flame Regulator, 2/- each extra.

Extra Nipples, 6d. each, Chimneys, 2/6 each.

Oil Fillers, fitted with Strainer, No. 1, 10d.; No. 2, 1/6 each

ORDINARY BLOW PIPE.



N 4207.

8 9 6d. 6dd. 10 inch. 7d. each.

SPIRIT BLOW PIPE.



N 4208.-5/- each complete.

This novel and useful article is extremely light and portable. The bottom part contains a supply of Naphtha or Methylated Spirit which soaks into a wick of cotton, the top of this wick projects and is ignited at the upper end.

THE "ÆTNA" PETROLEUM BLOW-LAMP.

N 3088.

This Lamp will bring a copper rod to welding heat within a minute, is perfectly weather-proof, will work in wind or rain, burns well and safely in any position. A pint of ordinary petroleum will last three to four hours. The principle of the Lamp is as follows: "The air, being pumped into the tank, forces an extremely fine jet of Petroleum to percolate the combustion tubes,

igniting only in the form of gas on reaching the open mouthpiece. The gas cannot get into the oil-tank, explosion is therefore impossible." It is most useful for wiping on bottoms of cisterns, &c., and large joints in awkward places, and for joining Electric wires, brazing Keys, &c.

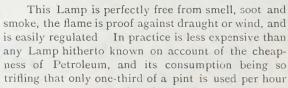
No.1, Brass, to contain 2 pints 15/- each.

No. 2, Brass, to contain 1 pint, 13/- each.

The "Ætna" produces a hotter flame than any other Brazing Lamp hitherto invented.

THE "VESUVIUS" PETROLEUM LAMP, FOR PAINTERS, Etc.

N 3090.



under the hardest pressure. It burns without a wick, the burner heating the Petroleum by its own flame and converting it into Gas-Explosion is impossible, because gas cannot possibly get into the tank, the latter containing only oil in liquid form, and the air that is pumped into it.

Gas is only developed in the Burner.

Every Lamp is tested under 45 lbs. pressure per square inch.

No. 1, Brass, to contain 2 pints 15/- each ... 2, 13/- 13/- ...

ORDINARY PAINT-REMOVING LAMP.

FOR METHYLATED SPIRITS.



N 4209. ... No. 3. No. 4 6/- each.

N 4210.—Soldering Lamps, without wings—
No. 1. No. 2. No. 3.
3/- 3/6 4/6 each.

Approximate Time of Burning:—
No. 1. No. 2. No. 3.

1 14 hours.

THE "HEKLA" PORTABLE FURNACE.



N 3092.

This Furnace burns Petroleum Oil without wick, and is a very useful tool. Is free from smell, soot or smoke, economical in use, and has the advantage of being very portable. Is suitable for melting metals, heating soldering irons, bending iron pipes, tempering tools, &c., often taking the place of a Portable Forge.

No. 1. No. 2.
One Burner, Two Burners,
34/- 37/-

No. 3.
Three Burners.
45/-

ENGINEERS' AND SMITHS' TOOLS.

SCREW PLATES.



N 6330 - Black Notched Clock-

8 9 10 12 14 16 18 sizes, 4/4 5/- 5/8 7/6 9/10 12/2 16/- each

N 6332-Bright Notched, between watch and clock-

> 01 12 sizes. 6/6 S/- each.

STOCKS & DIES FOR BRASS OR COPPER TUBE.

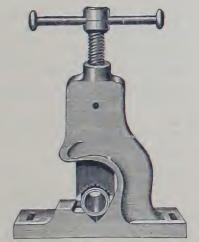


N 6333

Prices. Prices.
With With Taper and
Dies Plug Taps only for each size. 1 in 99 14/9 per set.

14/9 ... 1 8 .. 9/3 16/9 ,. \$.. 9/9 3 .. 12/-21/3 ..

IMPROVED TUBE VICE.



N 6334-

Size No. 1 takes 1 to 11 inch 9/- each. 11/3 2 .. 1 .. 2 .. 3 .. 1 - 3 .. 16/- ..

IMPROVED AMERICAN SCREWING STOCKS & SOLID DIES.



Price per set, with Dies only, no Taps-

					~	*			
N 6335.—For Iron	Gas Tube,	to screw		1	3	1	3	inch	 17/6
4.4	1.0	2.3	4	3	$\frac{1}{2}$	4	I	11	 28/-
1+	* *	- 1			2	7	I	7.4	 21/-
**	11	11			*	I	I	11	 25/6
**	11				14	1 12	2	11	 38/-

WARRANTED STOCKS & DIES, ENGLISH MADE.



									Prices. ith Taper : Taps for ea	and Plug
N 6336 -For Iron G	as Tube, to scr	rew		1	1	g i	nch	10/-	18/-	
33				3	3	I	9.0	25/6	42/-	These sizes in stock.
				1	11	$1\frac{1}{2}$	1.9	56/9	86/9	
	11		1	1	3	1/2	1.5	19/-	31/-	
		1	3	1	3	I		37/6		These or any other
		1	3	1	11	$1\frac{1}{2}$	11	72/-	111/6	combination of sizes
	11		8	1	1.1	71	, ,	62/8	98/-	supplied to order.
11			I	1 }	1 1	2	11	69/4	123/6	
N 6337 - SMITHS'.				+	38	1		7/6	16/3	
				3	1 5	8		8/9		These sizes in stock.
"	11	10.0		7	5	å		10/6	23/-	
				5	Ş	I		18/-	33/9	
11	. 10		1	3	1	58		10/6	23/6	mi
			3	1	5	3		12/6	28/-	These or any other combination of sizes
			1	- 62	3	I	0.1	23/6	40/-	supplied to order.
"	2	1	1.00	2	7	I		24/6	52/3	
N 6338.—ENGINEE		_		1	6	3		19/9	37/6	These sizes in stock.
N 0330. ENGINEE			7		1 l	1 }	* *	32/-		Any other combina-
11	11		8	7.1	1	1	**	- '	73/9	tions of sizes supplied
	11		1	1 1/8	1 1	17	11	49/9	99/-	to order.

TAPER AND PLUG TAPS.

N 6344 -Flat Head, Smiths', cut to point, taper 1/4 1 7 1/10 2/- 2/3 2/8 3/- 3/8 4/4 each. N 6346—Engineers', either taper or plug ... 1/6 1/6 1/10 1/6 1/7 1/10 2/- 2/4 ... N 6346—Engineers', either taper or plug ... 1/6 1/6 1/10 2/- 2/3 3/- 3/8 4/3 5/- ... N 6347—For Iror Gas Tubes, either taper or plug 1/- 1/4 1/8 2/- 2/4 2/8 3/9 5/- 6/6 each. N 6348 - For Brass, either taper or plug ... - 8½d. 10d. 11½d 1/1

BURNER TAPS.





69

N 6339.-2/- each.

N 6341, 3/6 each N 4213. - Plain T Handle ... 10d. each

ROUGH TAPS for STOVE SCREWS.



Up to 3 inch, 9d. each. 1, 30, 8 inch, 9d. each

TAP WRENCHES.

N 6350.—Fo	r Engineers'	Taps—	
g, + 1D.	1, § in.	字, g in	I, Ig in.
4/6	5/3	8/-	9/9
N 6351 - Fo	r Iron Gas Ta	aps—	
‡, ¾, ½ in.	4, 8, 1, 2 in.	½, §, ¾, 1 in.	I, 1\frac{1}{2} in.
7/3	8/6	9/9	r 5/-

BIT STOCK DRILL.

N 4215. Ditto with Straight Shank for Chuck -3d. 4d. 5d. 81d. 10d. 12 1/5 1/8 each.

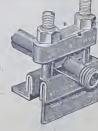
BIT STOCK TAPER

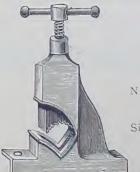
N 4216.

RIMERS.

PORTABLE TUBE VICE.

No. I No. 2 Will take 1 to 11 1 to 3 in tube. 16/9 each Price ... 7/3





LIGHT TUBE VICE.

N 6349 Size No. 1, takes to 1 inch, 6/6 each.

Size No. 2, takes | to 2 inch. 12/3 each.

To span

ENGINEERS' TOOLS.

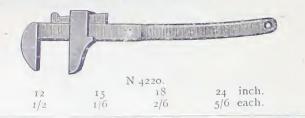
CLYBURN SPANNER.



WEDGE SPANNER.

9/6 11/-

14/- each.



TUBE CUTTER.



N 6361. Size No. 1. No. 2.

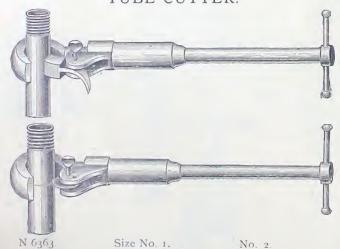
To cut \(\frac{1}{2} \) to 1 inch.

9/
To cut \(\frac{1}{2} \) to 1 inch.

N 6362. 3-wheel 11/6

N 6364. N 6365. 3-wheel 11/6

COMBINED PIPE WRENCH AND TUBE CUTTER.



To cut of to 1 inch,

8d.

N 6364. For Size No. 1. No. 2.

EXTRA WHEELS FOR TUBE CUTTERS.

1 to 2 inch, 16/- each.

No. 3

1/3 each.

FITTERS' IRON BRACE.

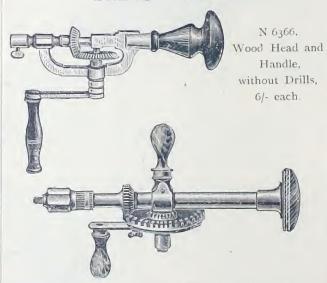


ARCHIMEDEAN DRILL, complete with Bits.

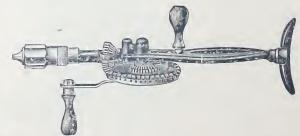


N 4221. 6 8 10 12 inch. 1/3 1/6 1/9 2/- each.

BREAST DRILLS.



N 4222.—Patent 2-speed, with ball bearing, Wood Head and Handle, 2 pair Jaws, and 6 Drills ... 11/- each. N 4223.—Do. do., Nickel plated ... 12/9 ...

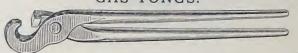


N 4224—2-speed, with Wood Handles, and Ball Bearings, 2 pair Jaws, without Drills ... 10/- each

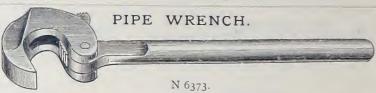
GAS PLYERS.



GAS TONGS.



N 6372.—To take $\frac{1}{2}$ $\frac{11}{4}$ I $\frac{1}{4}$ $\frac{1}{2}$ 2 inch. N 4225.—Blacksmith's Tongs, 20 inch, 1/6 each.



Size ... No. I 2 3 4 6 To take $\frac{1}{8}$ to $\frac{1}{2}$ inch. $\frac{1}{4}$ to I inch. $\frac{1}{2}$ to $\frac{1}{4}$ inch. I to 2 inch. $\frac{1}{2}$ to 3 inch. $\frac{3}{7}$ 4/3 5/9 7/9 14/6 each.

CHAIN PIPE WRENCH.

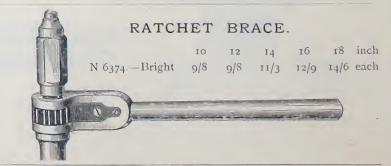


N 4266. No. o I 2 3 4 5 To take $\frac{1}{8}$ to $\frac{3}{4}$. $\frac{1}{8}$ to $\frac{1}{12}$. $\frac{1}{4}$ to $2\frac{1}{2}$. $\frac{3}{4}$ to 4. $\frac{11}{2}$ to 8. 2 to 12 inch. 8/6 11/6 18/6 25/6 37/- 60/- each.



MACHINE-MADE PIPE WRENCH OR TONGS.

To take $\frac{54}{16}$ to $1\frac{1}{2}$. $\frac{1}{8}$ to $2\frac{1}{2}$. $\frac{1}{4}$ to 3. $\frac{1}{2}$ to $3\frac{3}{4}$, $\frac{1}{2}$ to $3\frac{3}{4}$.



The varieties described represent in many cases but a small selection from those that can be supplied.

Further details will be sent on receipt of requirements.

FLAT, H	AL	FRO	DUND,
SQUARE	E an	d Ro	DUND
FILES,	FL	AT	AND
HAL	F I	ROU	ND
RASPS	&	FLO	DATS.

Rough and bastard.

To 4 inch		2/10	dozen
5		3/6	11
6		4/3	**
7		4/8	
8 ,,	•••	5/9	11
10 ,,		8/3	
I2 ,,	-14	11/10	11
14 ,.		16/6	1.1
15 ,,		19/10	,,
16 ,,		23/9	• •
18 ,,	• • •	33/-	11

HORSE RASPS.

Machine cut.

d or d File.

... 15/6 dozen.

15 ,,		• •	19/-	**
16 ,,			22/6	0
Single	bevelled,	1/1	dozen	extra
Double	e	2/1		11

14 inch

MASONS' RASPS.

10×1×4 inch ... 7/- dozen.

BREAD RASPS.

20/8 dozen.

SECOND CUT HALF-ROUND RASPS.

5 1	ncn	***	4/2 a	ozen
6	**	• ()	5/-	,,
7	**		5/4	,,
8			6/8	* *
10			9/4	ю
12			13/2	
14	* 1		18/3	• •
15	.,		21/6	11
16	**		26/-	,,

MILL SAW FILES.

Single Cut

With 2 round edges.

0.1	nch	• • •	5/6 d	ozer
7	**		6/9	• •
8	.,		8/2	, ,
9	• •		9/9	, ,
01	.,		11,'9	21
12	**		16/-	

REAPER FILES.

Double cut and plain, bevelled

edge, knife shape, tanged or self handle. 8 inch ... 51/8 gross. 4/6 doz. 8 ,, best 71/6 ,, 6/3 ,. Wood handled, knife shape—

MIDDLE CUT FLAT FLOATS.

6 inch		4/3	doze
9 "		6/8	-
12	444	12/-	

RIFFLER FILES.

8 inch	• • •	7/6 d	lozei
10 ,,		-/11	,.
		1	

SMOOTH AND CABINET FILES AND RASPS.

To 4 inch	 4/2 do	ozen.	
	,		
5 "	 5/-	**	
6	 5/9	11	
7	6/4		
8 .,	7/6	**	
10 ,,	 10/6	11	

HAND SMOOTH FILES.

HAND, ROUGH AND BASTARD; ALSO 3-SQUARE BASTARD.

1										
To 4 inch		4/2 dozen.	4 inch		4/6 do	zen.	To 4 inch	ŧ	3/3	lozen.
5	1	5/	5		5/6	3 1	5	(4.)	3/9	11
6		5/9	6)	7/-		ő "		5/2	12
7		6/4 ,,	7	, .	7/6	* 1	7		5/9	11
8 .,		7/6 ,,	8 ,,		8/6	.,	8	••=	6/8	10
10 ,,		10/6 ,,	10 .,	144	12,8	.,	10 ,,		10/-	11
12 ,,		14/8	12		16/6	.,	12		13/9	11
14 .,		19/10 ,,	14 ,,	• •	23/3	1.7	14		19/10	» 1
16 ,,		28/8 ,,					15 ,,		23/9	11
							16 ,	4.	27/6	11

TAPER SAW FILES.

Single Cut.

3½ inch		2/5 d	ozen.
4 0		2/8	
41/2		3/-	, ,
5		3/4	3 B
5½ ,,		4/-	1.7
6 ,,		4/6	,,
7	***	5/9	
8 .,	1464	7/3	* *
9 "		9/4	,,

8 inch ... 60/- gross 5/3 doz. 10 ... 11/6 ., 10 ...

STUBS' SAW FILES.

Tape	r or bl	lunt.		Frame.			(Gulletting		
3 inch		2/9 dozen.	3 inch		3/6 de	ozen.	4 inch		4/3 doz	en_
3½		3/- "	31/2	• • •	3/6	ī٠	41		4/9	,
4 11		3/6 ,,	4		3/6	2.1	5		5/3 ,	9
$4\frac{1}{2}$		3′10 ,,	41		4/-	.,	5½		5/9	
5 "		4/6 ,,	5		4/6		6 ,,		6/3	
5½		5/- ,,	5½		5/-	,,	7		7/9))
6 .,		5/6 ,,	6 ,.		5/6	* 1				
7		7/- ,,	7 ,.	4	7/-	**				
8 ,,		10/- ,,	8 ,,	,	10/-	.,	WARD	ING I	FILES	5.

... 12/- .,

.. 14/- ,,

WARDING FILES.

Assorted, 3/5 dozen.

If ordered in less quantity than \(\frac{1}{2} \) dozen of a size 10 per cent. extra will be charged.

DRILLING MACHINES.

The Machines shown in the following Illustrations are introduced to supply a long-felt want for a cheap and strong Machine suitable for Smiths, Country Ironmongers, &c. Each Machine is fixed to a strong plank, and in cases where out-door work is undertaken, the Machine can be taken to the job and fixed or tied to the nearest wall or post. All Machines are fitted with self-acting Feed, which can be regulated according to the metal or other work to be drilled.

THE CHAMPION SELF-FEED BLACKSMITH POST DRILL.



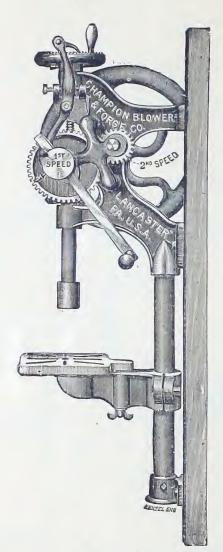
T 4246. With Square Table.

Has one speed. Will drill a hole to 1 inch. Drills to the centre of 141-inch circle. Has Spindle 18-inch in diameter. Is bored to take in 1-inch straight shank drills.

Weight, 100 lbs.

For hand ... £1 17 6 For power . 276

THE WORLD'S CHAMPION SELF-FEED BLACKSMITH POST DRILL.



T 4247.

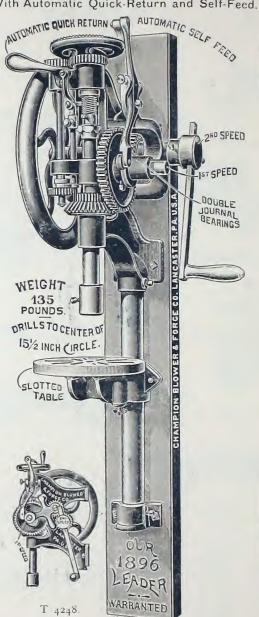
Has two speeds. Will drill a hole to 11-inch. Drills to the centre of 15-inch circle. Has Spindle 11-inch in diameter. Is bored to take in 1-inch straight shank drills.

Weight, 125 lbs.

For hand ... £2 5 0 For power 2 15 0

THE CHAMPION QUICK-RETURN BLACKSMITH SELF-FEED POST DRILL.

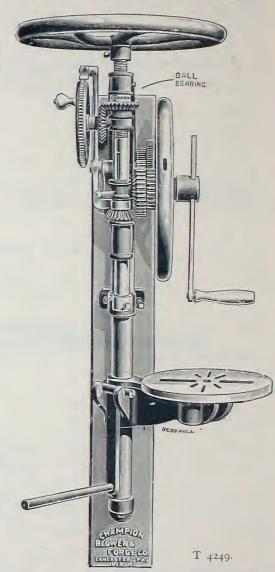
With Automatic Quick-Return and Self-Feed.



Has two speeds. Will drill a hole to 11 inch. Drills to the centre of $15\frac{1}{2}$ -inch circle. All bearings are ground to a working fit out of the solid metal. Splindle bored to take in ½-inch straight shank drills.

For hand For power 3 6 0

THE CHAMPION NEW BALL-BEARING BLACK DIAMOND BLACKSMITH SELF-FEED POST DRILL.

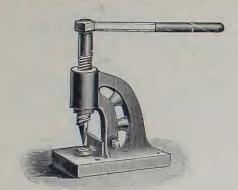


The Wheel Holder which is intended to hold and turn wheels on for drilling tire and preventing damage to painted wheels.

The second speed, for heavy drilling, is very convenient and is changed in an instant, simply a change of the crank handle into the side fly wheel. It will drill to the centre of an 18-inch circle. Spindle bored to take in 1-inch shank drills. Will drill a hole to 11-inch. Weight 215 lbs.

For hand For power ...

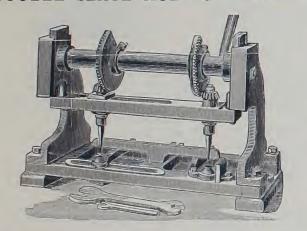
SINGLE SLATE HOLING MACHINE.



N 4236.

£1 7 Geach

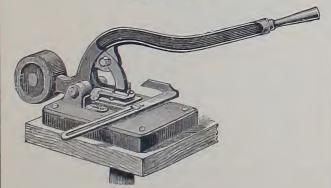
DOUBLE SLATE HOLING MACHINE.



N 4237

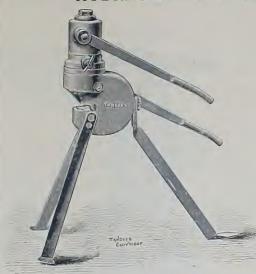
£6 6 o each.

VENETIAN BLIND PUNCHING MACHINE.



N 4238 - Will punch hole 1 x 3 inch ... £1 15 o each.

HYDRAULIC PUNCHING BEAR.



T 4239.

Open mouth, wrought iron body mounted on three wrought iron legs, steel ram, cistern with wrought iron bottom, gunmetal pump and wrought iron plunger, wrought iron hand levers with one stamped steel pump wrench and one round steel punch and die.

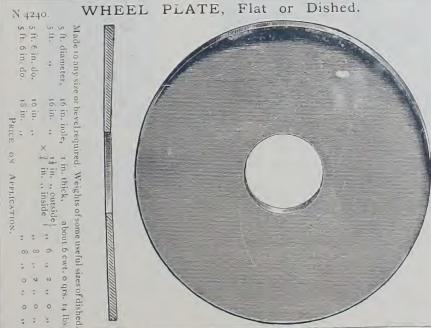
If Nos. 2 and 2A are to be used with punches and dies smaller than in or Nos 3 and 4 with smaller than 16 in., holders will be required at 5/- per pair. Bears are not supplied to punch holes of a diameter smaller than the thickness of the plate to be punched, because of the excessive strain on the punch. Instructions for using these bears are given n application.

	Size	No.	I	IA	2	2 A	_ 3	4
*To punch holes, diameter		ins.	3	1 3	I	118	I	1 7
*Through iron plates, thick	f nun	,, oh	1 2 3	8	2	8 2	I 2 !	21
From back of gap to centre of Approx, weight	n bun	lbs.	79	102	130	206	360	502
Prices			150/-	- 11	196/-			

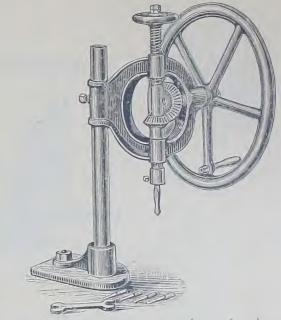
* These are given, as stated, for IRON PLATES. If it is required to punch similar holes through plates of harder material, a larger size bear must be used.

		2.	LEEL	LANC	HES A	ND D	IES.				
To punch he	les		ins.	1/2	3	7	1 S T 6	78.	I	14	1 1/2
Through iro Round				1	38/-	5 6	6/-	6/6	7/-	8/-	10/-
Oval		Trice per		8/-	10/-	11/-	12/-	13/-	14/-	16/-	20/-
Square		11	1.1	8/-	10/-	11/-	12/-	13/-	14'-	10 -	20/-

A pair means one punch and one die. Intermediate sizes are charged at the price of the next larger size.



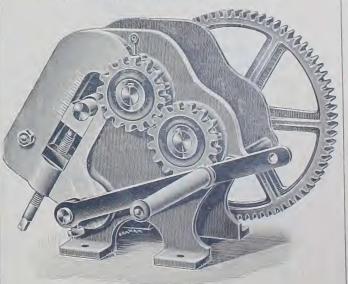
RADIAL PILLAR DRILLING MACHINE.



... £1 15 6 each. N 6367.

Height, I foot 6 inches, drills holes up to \frac{1}{2} inch diameter, and in centre of 9 inches; depth of feed, 21 inches

TYRE BENDING MACHINE.



N 6510. B size.—Rollers 6 ins, wide, will bend cold iron any size up to 5 x 3 in. ... C size -Rollers 8 ins. wide, will bend cold iron any size up to $6 \times \frac{7}{8}$ in ... $\cancel{£}7 \quad 7 \quad 0$

These are specially constructed for heavy work. By simply removing one lunch-pin the top roller can be removed, allowing the tyre to be taken from or re-placed in the machine without difficulty.

The moveable roller is adjusted correctly by means or the scale which is attached to the bearings, as shown to the left hand side of the illustration.

DRILLING MACHINES, FORGES AND BELLOWS.

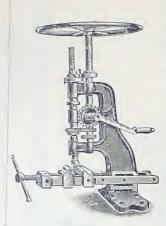
DRILLING MACHINES.



N 6390.

Wall Drilling Machine, single speed, hand feed motion Fly wheel 231 in. diameter Drills up to g in diameter. Distance from centre of spindle to wall 8 in.

Price f2 0 0

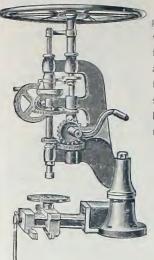


N 3030.

136 set extra.

Bench Drilling Machine, double geared, sliding parallel vice, with steel jaws, to fit frame at two different heights, self feeding motion.

Diameter of spindle 1 in. Diameter of fly wheel 2 tt. 4 in. Drills up to 1 in. diameter. Height 3 ft. 3 in, to top of wheel. Gap from centre of Drill 75 in. Approximate weight 15 cwt. Price £4 18 6



N 4244.

Bench Drilling Machine, double geared, reversible sliding parallel vice with steel jaws and table, to fit frame at two different heights, self acting feed motion, with fly wheel for quick raising and lowering spindle. The top of machine can be swung round by loosening nut on top of pillar.

Diameter of spindle 176 in Diameter of fly wheel 2 ft. 75 in. Drills up to 1 in. diameter Diameter of face plate 111 in. Height 3 ft. 10 in. to top of wheel Gap to centre of drill 123 in. Approximate weight 23 cwt.

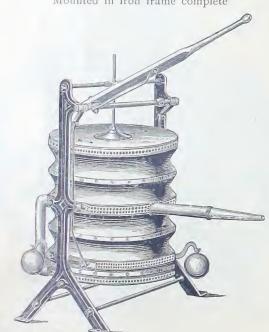
Price £6 14 6



N 6393.

Improved PATENT DOUBLE-BLAST CIRCULAR BELLOWS.

Mounted in iron frame complete



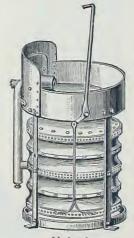
N 6394 STANDARD QUALITY, Warranted— 18 20 22 24 26 28 30 32 34 in. 69/- 79/5 92/6 105/6 119/- 138/- 160/- 180/- 214/-WEI HTS-For 18 & 20 22 & 24 26, 28 & 30 32 & 34 inch. 6/- 7/6 8/9 13 6 set ext

IMPROVED PORTABLE FORGE.



N 6595		
Size No. 1, 2 ft. 5 in. long, 2 ft. wide, 2 ft. 10 in. high, 24 in. bellows £4	6	0
Ditto, mounted on wheels as per drawing 5	I	6
Size No. 2, 2ft. 2in. long, 1ft. 10in. wide,		
2 ft. 7 in. high, 22 in. bellows 3 1		
Ditto, mounted on wheels 5	5	0
Size No. 3, 2 ft. 2 in. long, 1 ft. 8 in. wide,		
2 ft. 6 in. high, 20 in bellows 3	9	0
Ditto, mounted on wheels 4 1	5	0
Above, if with vice attached, 22/- each extr	a.	
2 ft long, 1 ft. 6 in. wide, 2 ft. 6 in. high.		
18 in. bellows 3 1		0

IMPROVED SINGLE-BLAST RIVET FORGE.



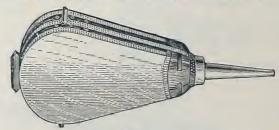
1ft, 6in. wide, 2ft. 4in. high, 16in. bellows £2 10 0 *1ft. 8in. wide, 2ft. 4in. high, 18in. bellows 2 12 6 *Ift. 10in. wide, 2ft. 4in. high, 20in. bellows 2 19 6 *2ft. wide, 2ft. 10in. high, 22in bellows 3 8 6 2ft. 2in. wide, 2ft. 10in. high, 24in. bellows 4 I 6 *Sizes generally supplied. Prices of Double-Blast on application.

Pillar Drilling Machine, double geared, self-acting feed motion, revolving table, having on one end a circular adjustable plate and parallel vice on the other. The top part of machine can be swung round by loosening the nut on top of pillar. Raising motion of the table by rack.

Drills up to 1 in diameter. Diameter of face plate 121 in. Height 5 st. 7 in. Gap to centre 121 in.

Approximate weight 3½ cwt. Price for hand power
Ditto, with fast and loose pulleys Also made in larger sizes.

LONG SHAPE SMITHS' BELLOWS.



N 6397.

Best warranted extra leathered and double nailed. 24 26 28 30 32 34 36 38 40 42 in. 41/6 49/- 55/- 65/- 75/- 90/- 115/- 143/- 180/- 215/-Extra best, extra leathered and double nailed, with two

frames in top. 46/6 54/6 61/- 72/6 83/6 100/- 127/6 159/6 200/- 240/-Prices of smaller or larger sizes on application.

Packing in canvas, up to 30 in., 1/6 per pair extra.

Ditto above 30 in., 2/- ditto

These qualities are generally supplied, but cheaper can be had if desired.

Any description of Smith's Bellows made to order.

HAMMERS.









N 6398.—All Cast Steel Engineer's, either ball, straight, or cross pane, 1 lb. and upwards, 8d per lb. Ditto ditto 1 and 1 lb., 9d. each.

N 6399 -All Cast Steel Smith's Hand, cross or straight pane, or double faced, 2 lbs. and upwards, 8d. per lb.

N 6400 or N 6401 -All Cast Steel Sledge, either cross or straight pane, or double faced, 6 lbs. and upwards, 5d per lb.

Hickory Handles—	15 2/2 21d.	18 2/9 3d	3/2 dozen.
Ash Handles—	18	Ju	24 inch. 2/9 dozen 3d. each.
	2d.		Dozen. Each.

Hickory Sledge Handles, 36 in. 6/6 5d. .. ., 36 in. ... 4/-Ash

SMITH'S ANVIL.



N 6104

Smith's ordinary pattern, 3 to 5 cwt each, first quality, warranted, 33/6 per cwt.

Farrier's, with steeled bicks, 1/6 per cwt. extra. Cheaper quality supplied, but not recommended.

NEW PATTERN SWAGE BLOCKS.



17 in × 17 in. × 5½ in. will weigh about 2 cwt 2 qrs. 20 lbs., per cwt.

124in × 124in × 42in will weigh about 1 cwt. 15 lbs. per cwt

Cast iron Stands for the above,

SMITH'S TROUGH.



N 6409.

Made in a variety of sizes and shapes Price as drawn, with round end and divisions, 3 ft. long x 16 in wide (9 in for coal and 7 in for water) x 12 in. deep, 32/- each. Smiths' Cones also supplied. For Wheelplates, see page 73.

IMPROVED SMITH'S HEARTH BACK, WITH TUE IRON.



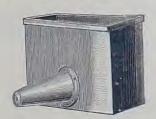
			N 6402.			
		5	Size of Blast Ho	le.		
Size	13 × 14 in		of to I in.		6/3	each
1.7	14×15 in.		i to 11 in.		7/9	11
ii	15×16in.		I to 1 in		10/-	
	18 × 19 in.		It to It in		14/6	
	If with nut	s, pi	ns, and plate	s, 2/-	extra	

HEARTH BACK FOR WATER BOSH.



N 6405.—Size 18 in. high x 19 in. wide, 12/6 each. ., 15 in. ,, × 16 in. ,, 8/3 ... With nuts, pins, and plates complete.

IMPROVED WATER BOSH.



	2.4	040		
Size of Bosh or Cistern.			Size of	
Long.	Deep.	Wide.	Blast Hole.	Each.
Ift.gin	1 ft. 9 in.	7½ in.	a to 18	31/-
2 ft.	Ift II in	9 in	1 to 1 g	36/6
2 st 3 in.	2 st, 1 in	10½ in.	1 to 18	47/-

GRINDSTONES.



N 6412.

Improved Grindstones, in cast frame, wrought treadle and handle.

With stone 18×3 in. ... 32/- each. ,, ., 24 × 4 in 52/- ,,

'N 6413-Grindstones in cast-iron trough, best quality stones and well fitted.

8 in. 10 in. 12 in. stone 12/- each. 8/- 10/-

N 6414.—Price of Grindstones only, best blue, similar to Bilston.

6 in. 8 in. 10 in. 12 in. 15 in. 18 in. 1/2 1/8 1/11 2/2 2/11 4/- each $24 \times 3\frac{1}{2}$ 30×4 $36 \times 4\frac{1}{2}$ $42 \times 5\frac{1}{2}$ $48 \times 6\frac{1}{2}$ in. 5/6 10/- 18/- 27/6 38/- each.

IMPROVED PARALLEL VICE.



N 6403.

Made of best cast-iron, with steeled jaws. No. o, opens 23 in., width of jaw, 21 in., 6/3 each. 3 in., 7/3 ... ,, 1, ., 3\frac{1}{2}\text{in., } \, ., 2, ., 4 in, 3½ in . 11/3 .. 4 in., 15/6 .. ., 3, ., 4º in., ... 5½ in., 4½ in., 22/- ..

INSTANTANEOUS GRIP VICE.

N	3084. For	Engineer	s and Metal	Work	ers	
No.	Width of Jaw	Opening		P		
5	1 1	33 in.	33 lb.	£I		
6	37 in.	4å in.	423 lb	I	12	6
	41 in.	43 in:	61 lb.	I	18	0
8	5} in.	61 in.	75 lb.	2	3	9
8a	6 in	6. in.	So lb.	2	9	6

SMITH'S VICE.



N 6407

Black Staple, solid box, 30 lbs. each and upwards, first quality, warranted. 5 d. per lb.

Under 30 lb., 61d per lb

Approximate weights.

Width of jaw,

 $4\frac{1}{2}$ 5 $5\frac{1}{2}$ 6 $6\frac{1}{2}$ in. 32 4 33 45 58 72 95 104 127 lbs.

Spare solid boxes and pins, 111d. per lb.

IMPROVED PORTABLE VICE BENCH.



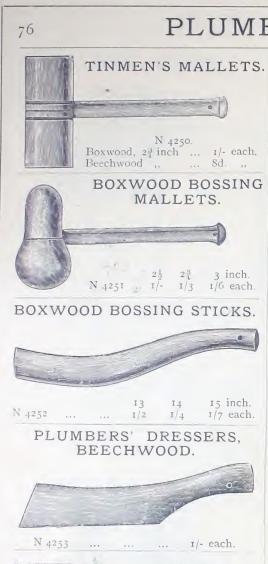
N 6411.

Cmall size fitted with best warranted

solid Box Vice, 3½ in jaws, weight about 30 lbs.	£2	1	0
Medium, fitted with best warranted solid Box Vice, 4½ in. jaws, weight about 56 lbs	2	ĪĄ	ō
Large size, fitted with best warranted solid Box Vice, 6 in jaws, weight about 85 lbs	3	12	6
Also supplied mounted on wheels, or	fitte	ed	

with parallel vice.

PLUMBERS', GLAZIERS', AND TINMEN'S TOOLS.



... od.

PLUMBERS' SHAVE HOOKS.

PINS.

2d. 3d. 41d. 81d. each.

N 4256. Egg shape,

straight or bent,

7d. each.

N 4257 -- 3 Square

ditto.

7d. each.

N 4254

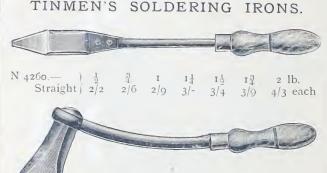














PLUMBERS' MELTING LADLES.





PLUMBERS' CHIPPING KNIVES.

N 4263 — 5 inch 1/2 each.



GLAZIERS' PUTTY KNIVES. N 4266.—Notched, 4 inch ... 8d. each.

N 4267.—Plain, 4 7½d. ..

PUTTY OR STOPPING KNIVES.

N 4268.—5 inch $9\frac{1}{2}$ d each. N 4269 —Chisel point do. $4\frac{1}{2} \times 2$ inch 11d. ,.

PALETTE KNIVES.



N 4270 ... $\frac{6}{100}$ 7 8 9 10 12 inch. N 4270 ... $\frac{100}{120}$ 1/6 $\frac{1}{2}$ 1/6 $\frac{2}{2}$ $\frac{2}{6}$ — each. N4271.— Balanced handle 1/1 1/5 1/8 2/2 2/8 4/6 ,,

PAINTERS' STRIPPING KNIVES.



N 4272. 5 inch × 3 inch. 1/4 each.

PAPERHANGERS' STRIPPING KNIVES.



PAPERHANGERS' SCISSORS.



GLASS CUTTERS. N 4275 ... 6d. each.

GLAZIERS' DIAMONDS.

N 4276.-C quality, for crown glass ... 11/6 each. B ,, large spark ,, ... 16/- ,, A ., for sheet glass ... 20/- .. S .. ., thin plate glass... 24/- ...



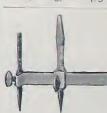
PAINT KETTLES.

No. 2/0 0 I 2 3 N 4277.—Tin 4½d. 7d. 10d. 1/- 1/3 each. N 4278.—Galvanized Iron, with hook— 8 inch I/- each.



GLUE POTS.

N 4279.—Tinned pan— $\frac{1}{2}$ I $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ 3 $\frac{1}{2}$ 5 pints. I/4 I/8 2/3 3/4 4/6 5/8 each. N 4280.—Copper pan— $\frac{1}{2}$ I $1\frac{1}{2}$ $2\frac{1}{3}$ $3\frac{1}{2}$ 5 pints. 2/8 3/1 4/3 5/8 7/9 9/8 each.



WASHER CUTTER.

N 4281.

Single .. 2/6 each. Double .. 3/6 ..



GLASS PLIERS.

N 4282.-7 inch ... 2/3 pair.

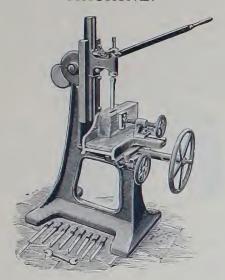


OIL STONES

N 4283.—Turkey, S or $9 \times 2 \times 1\frac{1}{4}$ in. 1/6N 4284.—Washita, do. do. 1/4 N 4285.—Canadian, 7 to 8 × 2 to 2½ × ¾ to 1¼ in. 5d. N 4286.—Turkey sips, 4 to 5 in. each 11d. N 4287.—Washita do. do. ,, 8d.

The varieties described represent in many cases but a small selection from those that can be supplied. Further details will be sent on receipt of requirements.

THE "CHALLENGE" MORTICING MACHINE.



N 6500

In designing and constructing the above machine, the maker's aim has been to make a Mortice Machine to come in at an exceedingly low price, and which for simplicity, efficiency, and accuracy in all its working parts, cannot be surpassed.

It is suitable for working either hard or soft wood, thus making it a most acceptable machine for all classes of joiners, builders, cabinet makers, &c., &c.

The frame itself is made all in one casting. By this means a strength and solidity is given to the machine, which is not only very desirable but very necessary where good work is required to be done.

The wrought iron lever which is used for bringing the chisel down to its work is so placed that when the workman is using the machine he stands in an easy and convenient position for operating on and seeing the work he is doing.

The chisels are made from a high-class steel, specially manufactured for morticing purposes.

Each chisel is fitted with a pin, which fits in the slot hole in a taper socket in chisel box, this keeps it immovable and perfectly true in reversing, thus by a half turn of chisel box handle the chisel is reversed truly.

This machine will mortice 6 inch deep, and take work on the movable table 16 inch × 7 inch. Weight of machine, 3 cwt. 3 qrs.; with boring apparatus, 4 cwt.

Price of machine including eight chisels, ¼ inch to ¼ inch, one spanner and one core driver (without boring apparatus) ... 88 8 0

Price of machine with boring apparatus, including three bits for iron, and three for wood ... 9 9 9

THE IMPROVED "GEM" BAND SAWING MACHINE.



N 6501.

Having often had enquiries for a good Hand Band Saw Machine, and one that could, when required, be converted into a machine to be worked by steam power, we can recommend above machine as being such an one. It is strongly built, the pillar being one solid casting; it is compact and complete in itself, occupies little room, and works by hand with greater ease than any other hand machine of its class. We introduce it to the trade with full confidence in its working, feeling certain that it will not fail to give satisfaction to anyone requiring such an article.

It is fitted with tension motion to allow for expansion or contraction of saw whilst working.

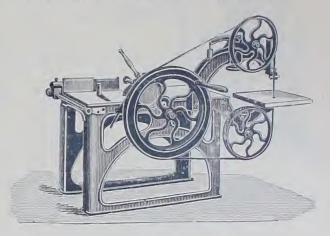
The table is made to cant for cutting work on the bevel.

It will admit of work 11 inch deep.

When worked by steam power, speed of driving pulleys should be about 100 revolutions per minute.

F	£	S.	d.
No. 2 size, with band saw pulleys each 16 inch diameter, and fly-wheel 28 inch diameter, with angle bracket for tenoning, one screw-key, and one 3 inch saw, sharpened and set ready for use. Weight, 5 cwt. 2 qrs Price			
No. 1 size, with band saw pulleys each 20 inch diameter, and fly-wheel 32 inch diameter, with angle bracket for tenoning, one screw-key, and one 3 inch band saw sharpened and set ready			
for use. Weight, 7 cwt Price A boring apparatus, with 1 inch auger, may be	13	10	0
attached to either machine Price extra Either machine may be made so as to work by steam power, by placing a pair of pulleys behind fly-	2	0	0
wheel. With one pair 9 in pulleys, price extra	0	12	6
Ditto, with one pair 12 inch pulleys ,,	0	15	0
Belt, fork, and striking gear for ditto	0	12	0
For steam power the No. 1 size is recommende	d.		

HAND-POWER COMBINED CIRCULAR AND BAND SAWING MACHINE.



N 6502.

Will cut with 14 inch circular saw, $4\frac{1}{2}$ inch deep, with band saw 6 inch deep. Approximate weight, 8 cwt. 2 qrs.

Table for above bench is 4 feet × 2 feet, substantially made of iron, planed true on the top. It is fitted with rising and falling spindle, self-acting feed motion; parallel fence made to cant so as to cut bevels, and also to turn over end of bench, to be out of the way of cross cutting. It is also fitted with weight and roller, for keeping timber to fence.

With this bench one man can cut 3 inch deep at the rate of 10 feet in four minutes, or 2 inch deep at the rate of 10 feet in 2 minutes, thus effecting a saving of 150 per cent, over what can be done with the hand saw.

Band saw apparatus is fitted with square table, made so as to cant over for cutting to any bevel: with this may be cut any irregular, curved, or ornamental design, with an ease not attained before by any hand power-machine. The band saw is fitted with a new arrangement for securing equal tension to saw at all times.

	£	S.	d-
Price of above machine, with one each 9 inch and 14 inch circular, and one band saw § inch Ditto, if with boring apparatus, and one patent auger		0	
Ditto, if with patent apparatus for steam power as well as hand extra	2	0	0
Ditto, if for steam power only and not for hand .,	I	10	0
Price for band saw apparatus, to attach to wood bench with one saw § inch	8	0	0
Hand power circular saw bench only, with one each 9 inch and 14 inch saw, feed motion, and six rollers for extending bench	12	10	0
Ditto, without feed motion or the six rollers	10	10	0
If prepared to work by hand or steam extra	U	10	0

LIFTING JACKS, PAINT AND MORTAR MILLS, SCREENS, &c. 78



NEW PATTERN PAINT MILL.

WITH LATEST IMPROVE-MENTS

Diameter of Diameter of Approximate Approximate Price Grinding Cones Hopper at Top. Capacity of Hopper, Weight of Mill. each Approximate Price 4½ ins. 75 ins. 1 quart 22 lbs. 30/6 100 ... 1 gallon 45/-6 ,, fitted with fast and loose pulleys, belt fork and pedestal for power 64/-

This Mill is recommended as the best value in the market, and the sixinch is a useful size for most workshops

The grinding parts are fitted very accurately, the cones being cut by special machinery, so that colours can be finely ground for best work; also by a simple adjustment the machine can be used for grinding up old paint or mixing colour with rapidity.

The Hopper and Irough are lined with porcelain enamel, so as to be easily cleaned, and a spout is provided for delivering the ground material, which is a great improvement. By means of a simple adjustment, the Mill can be instantly converted into an excellent mixer.



BOTTLE JACKS.

N 6516. With cast iron frame.

Size No.	Height when down.	Diameter of Screw.	Teste	d to	1	Price	
1	rain.	ış in	115	ton.	£o	5	9
2	15	15	2		0	6	9
3	18 .,	1章 .,	4		0	8	9
4	21 .,	I 3	5		0	IO	0
5	24	13	6	- 11	0	13	0
6	24 .,	28	8		0	15	3
7	24	28	10	11	0	18	0



HALEY'S SCREW JACKS.

N 6517.—With forged steel pinions and wrought iron case hardened wheels, with wood cases.

	Size No.		Diameter of Screw.	Tested to	Price.
1.2	I	29 in	13 in	2 ton.	£2 3 0
	2	31	2 ,,	4 .,	£2 3 0 2 13 6
. =	3	32	2.1	6	3 1 0
0	4	34	21/2	8 ,,	3 15 0
00		34 11	27	10 ,,	4 2 6
0 0	0	37	3	12 ,,	5 4 6 8 0 6
	7			16 ,,	8 0 6
	8	40	34	20 ,,	10 5 6

PHIPPS' PATENT LIFT, PULL AND PUSH JACK AND CRAMP.



WITH LUGS FOR CHAIN, HOOK, WIRE OR ROPE.

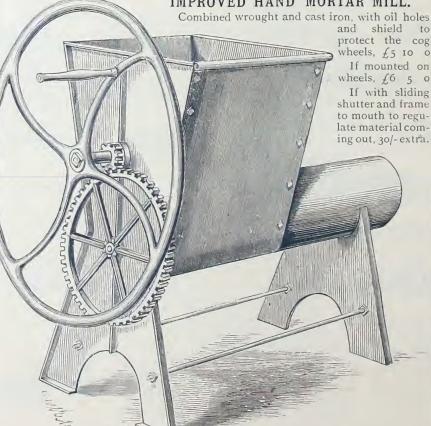
N 3086.

These extremely useful little Tools will be found most handy for a thousand purposes, are very strong and well fitted, and possess great power. The Central Block and Screws are a Solid Steel Forging, with right and left hand Square Thread The Heads are Malleable Iron.

Mechanics who have used them, declare they are just the article so much wanted in every workman's kit, are a marvel of cheapness, and will save time and money.

		Si	ze.	Height when Down.	Diam. of Screw.	Ркісь.	Weight Lbs.
A		I	ton.	6 in	å in.	8/6	23
В		. 1	V 8	8 ,,	Ι ,,	8/6	4 1/2
C		I l		10 ,,	11	11/-	9월
D		2	1.1	12 ,,	11/2 ,,	13/6	131
E	- + +	- 4	1.1	14	13	19/-	211
F		6	11	16 ,,	2 ,,	24/-	34
G		8	,,	18 ,,	21	29/6	48
Н		10	++	20 ,,	21/2	39/6	75

IMPROVED HAND MORTAR MILL.



N 6507.

SCAFFOLD ROPES.

Tarred Russian hemp, in coils ... White do., in coils ... 40/- per cwt.

White do., in coils ... 40/- per cwt. te do., in coils 45/- per cwt.
,, cut and whipped ... extra 1½d. per rope. The above are BEST QUALITY Ropes, and can be thoroughly recommended. Cheaper can be supplied. Weight of 1 dozen § in. x 12 feet long, tarred hemp, cut and whipped, is about 20 lbs.

ditto 8 in. x 18 feet long, is about 30 lbs.

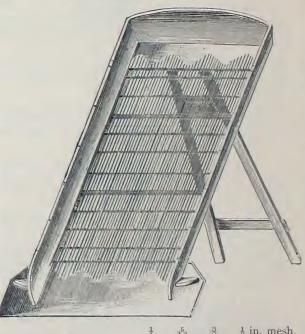


RIDDLES. GALVANIZED IRON WIRE.

Single wood hoop -- 25/- 19/3 14/9 14/- 12/- dozen. 2/3 1/10 1/5 1/4 1/2 each. 3/6 3/- 2/9 2/8 4/-Galvanized iron | - 23/9 21/- 20/- 20/- 20/- dozen. hoops ... j - 2/2 1/11 1/10 1/10 1/10 each.

LIME SCREENS.

N 6509



Black wire without ladder 16/9 15/6 14/- 12/9 each. Best galvanized with ,, 26/9 25/6 24/- 22/9 ,, Black wire, improved | _ _ _ _ 22/9 20/- ... loop, without ladder Rod Screens for coal and gravel, without ladder, 1 inch

rod, size of bed, 2 feet 6 inches x 4 feet 4 inches. § inch. 45/6 39/- each.

The varieties described represent in many cases but a small selection from those that can be supplied. Further details will be sent on receipt of requirements.

DRAIN CLEANSING MACHINES.



N 4290.

30 foot	Drain	Cleansin	g Machin	e, consi	sting of	ten 3	foot b	est sto	out red i	malacca
rod	s, fitted	with be	est brass	screws,	double	worm	screw,	brass	clearing	wheel,
	1 1 1			Amabia	adaan aa	mar a	nd otro	000	nloto	(+

	4 1110	II IIIdia .	ubbei	prunger,	Zi Cillini	Cucan	SCION, MIL	d Street,	compicto	 2	/	
40	foot		.).		7.0					 £I	16	6
50 1	foot		.) .							 2	4	0
	e .		0.								15	
70 1	foot							1000		 3	4	0
							.)			 9	12	
90 1	foot		1							 3	17	0
100					- • •						3	
200	foot						11.41	111.0		7	18	0
Chi	mney	Sweeps'	Brush,	extra	1					0	2	9

The Machine can be used for Chimney Sweeping also

Best Stout Red Malacca Cane Rods, fitted with best brass screws-

			S.	d.	1					S.	d.
2 foot	 14,000	each	1	6	4	foot		 	each	3	0
2 foot 6 inch			I	10	4	foot	6 inch		11		
3 foot		1.1	2	6	5	foot			0.2	3	8
3 foot 6 inch		1.2	2	9	+						

CHIMNEY SWEEPING MACHINES.



N 4291

40 foot Chimney Sweeps' Machine, best stout red malacca canes, fitted with best brass screws, 4 foot or 4 foot 6 inch lengths, with 18 inch Chimney Sweeps' Bass Brush, patent wheel and cup, leathers and straps complete, as shown

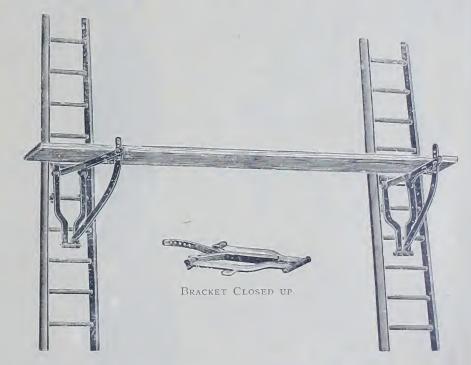
£1 13 0

50	foot					 2 0	0	
	foot						6	
70	foot	 	i			2 13	-	
80	foot							
90	foot		.1.		 179	3 6		
100	foot			4.5		 3 12	0	

PATENT ADJUSTABLE WROUGHT IRON LADDER BRACKETS.

Safe, light and compact absolutely steady in use, and without the least side motion.

Suitable for forming a Platform instantly, at any height, for painting, pointing, gutter fixing, etc.



N 4292.

25/- per pair

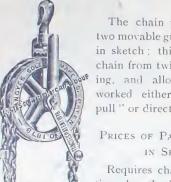
Takes a plank 14 inches wide. Weight about 26 lbs.

It hooks on to two rungs of each ladder, and on either side of ladder, and is supplied to suit ladders of 9 inch rise of tread, unless otherwise ordered.

PULLEY BLOCKS AND HOISTS.

IMPROVED WESTON'S DIFFERENTIAL PULLEY BLOCKS.

WITH PATENT SWIVELLING RADIAL CHAIN GUIDES.



The chain passes through two movable guides, as shown in sketch; this prevents the chain from twisting or catching, and allows it to be worked either by a "side pull " or direct " down pull."

PRICES OF PATTERN SHOWN IN SKETCH.

Requires chain about four times length of lift.

Tested to	Blocks per set.	Bright Chain per foot.
5 cwt.	8/6	6d.
10 .,	11/6	6d. 63d.
20 ,	16/-	6 <u>1</u> d.
30	25/-	8d.
40 ,,	32/-	9d.
60 ,,	40/-	11d.

These pulleys and chains are tested to the powers respectively stated (which are intended as extreme limits) and the greatest care is taken to ensure iron of the best quality; but it is distinctly understood we do not hold ourselves responsible for the effects of any chain, &c., breaking. It is advisable to allow a suitable margin when ordering.

When sheaves or other parts are required for renewal it is necessary to give the consecutive number stamped on the side strap of top frame.

PATENT SURE-GRIP TACKLE BLOCKS.



N 6511.

Will hold load at any point without fastening the rope. The brake is absolutely automatic-the heavier the load the better the grip, and it is disengaged by very slight pressure on the trip cord.

I	PRICES O	F BLOCKS	s—		
Using	One m	an can lift	Capa	city	
No. 3. $-\frac{3}{8}$ in	rope 30	oo lbs.	600	lbs	 12/6
No. 4. $-\frac{1}{2}$ in	3	50 lbs. :	000,1	lbs.	23/-
No. 5 § in.	., 40	oo lbs.	1.800	lbs	 30/-
No. 6 in.	4		2,500		
No.			-, 5		 5-1
41. Double 1 in	1 60	oo lbs.	3,000	lbs.	 12/-
51 - , § ir	1 70	oo lbs.	3,500	lbs.	 50/-
$6\frac{1}{2}$.— ,, $\frac{3}{4}$ in	1 8:		5,000		
		Jewn Ro			

PRICES OF HEMP ROPES-3 inch, 2d. per yard; 1 inch, 3d. per yard. § inch, 4d. ., § inch, 5d. .. For single blocks, Nos. 3, 4, 5, and 6, five lengths of rope are required; for double blocks, Nos. 4½,

 $5\frac{1}{2}$, and $6\frac{1}{2}$, eight lengths. When ordering blocks and ropes give height to be raised.

Instructions for Reeving .- Enter rope at A, pass wedge, and follow arrows as shown in cut. It will be noticed the two centre ropes coming in contact with wedge always travel in same direction at same time. Take the twist out of rope before Price of travelling gear on receipt of requirements. \$000000000000000000000000000000**3** QUICK ACTION CHAIN

> Having two wheels of different diameters connected together, the smaller one carrying the lift chain and the larger one the endless hand chain, the empty chain descending simultaneously with the raising of the

HOIST.

The size in greatest demand is No. 2, to lift 5 cwt., and is recommended in preference to the 2½ cwt.

In ordering endless hand chains, shorter than the lift chains, for work-ing from overhead floors, please note that it is our practice to measure end-less chains double. i.e., to describe a hand chain measuring 20 ft. all round as "10 feet endless." When the hand and lift chains are one length, it is only necessary to state the height from the suspending hook to the ground.

The lift chain is supplied with rings or hooks, or both if desired.

T 6512.

No.	Tested to lift.	Diameter of large wheel.	Price of hoists without brake.	Price of lift or hand chains per foot.
$\frac{1}{2}$	2½ cwt. 5 cwt.	12 in. 16kin.	£0 15 0	7d. 7d.
3	74 cwt.	20 in.	1 5 0	Sd.
4	10 cwt.	24 in.	1 10 0	8d.

Extra for Ordinary Brake, as drawn, having a lever and cord, by pulling which the operator can lower the load with great ease and safety; a balance weight releases the brake when not required ... 10/- each.

Each foot of height requires 3 feet of chain.

WALL CRAB HOIST.



Size 16 in. x 12 in. x 10 in. from wall, with a 2½ in. × 6 in. barrel.

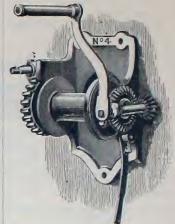
Requires 10 revolutions of the handle to I revolution of the barrel. Allowing 40 revolutions of the handle it will lift a weight not exceeding 5 cwt. about 3 feet per minute. It cannot run down without the

handle being turned.

Is especially adapted to Carriage-houses for lifting wagonette heads.

No. N1 £1 10 0 Suitable bolts for fixing to 9 in. wall, 4/3 per set. Suitable wire rope, 71d. per foot.

WALL CRAB HOIST.



Size 24 in. x 22 in. × 16in from wall, with 3 in. x9 in. barrel.

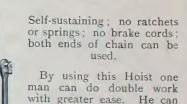
On the lefthand side is the worm-and-wheel gear, giving great power (up to 10 cwt.) with slow speed, and on the right-hand side. quick speed, capable of lifting 3 cwt. thirteen feet per minute, and of lowering by brake it desired.

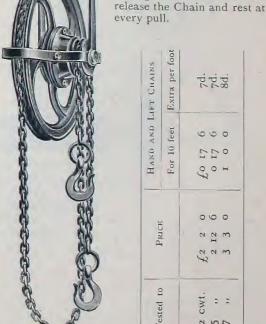
No. N4 .. £3 18 0

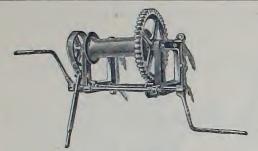
Suitable Bolts for 9 in. wall, 6s. per set. Wire rope 71d. to 1od. per loot.

Chain 10d. per foot.

STANDARD SACK HOIST.







WALL CRAB.

N 6519

SIN	IGLE I	PURCH	LASE	DO	UBLE	PURCI	TASE
No.	To lift with 2 and 3 sheave pulley blocks.	Price without brake.	Price with brake.	No.	To lift with 2 and 3 sheave pulley blocks.	Price without brake.	Price with brake.
I	2 ton	40/6	49'6	10	3 ton	58/6	68/-
IA	3	47/6	57/6	IOA	4	64/-	73/6
2	4	56/6	67/-	11	5	78/-	90/-
3	5	65/-	77/6	IIA	7	97/6	112/-
4	6 ,,	85/6	97/6	12	9	117/-	133/6

The above will lift one-third the weight specified from the Barrel direct,

GIN BLOCKS OR RUBBISH PULLEYS.



N 6518.	N	65	18.
---------	---	----	-----

Dia of Pulleyins Width of Groove	6			12 118	
Price each	4/3	8/9	10/-	12/6	14
Dia of Pulleyins.	16	18		П	
Width of Groove .,					
Price each	17/6	18/-			

The actual width of Groove is from one-sixteenth to one-eighth more than list to allow for new rope being larger.

CRAB WINCH.

N 6520.

These Crabs are so constructed that the handles do not revolve when lowering by the brake. They have turned shafts, the bearings accurately bored, and steel keys.

SINGLE PURCHASE.

		sheave	t with and 3 pulley cks.	Price without brake.	Price with brake,	Extra if brass bushed.
No. o		I	ton	38/9	47/-	7/9
,, I		2	21	40/6	49/6	7/9
,, IA		3	1.3	47/6	57/6	9/-
,, 2	111	4	1.2	56/6	67/-	10/3
., 3		5	11	65/-	77/6	12/-
4	(6	11	85/6	97/6	13/6
5	1.4.	7	* *	99/6	114/-	15/6

DOUBLE PURCHASE.

		2 a sheave	ft with nd 3 pulley ocks.	Price without brake.	Price with brake.	Extra if brass bushed.
No. 10		3	ton	58/6	68/-	10/6
,, 10.	Δ	4	11	64/-	73/6	12/3
,. II		5	,,	78/-	90/-	14/3
,, II.	Α	7	11	97/6	112/-	16/3
,, 12		9	14	117/-	133/6	18/9
13	.17 3	I 2	2.8	141/6	158/6	21/3
14		15	1 (183/-	203/-	28/6
15		18	11	235/6	257/6	32/6
16		24		292/6	317/-	32/6

The above will lift one-third the weight specified from the barrel direct.

These Crabs can be fitted with fast and loose pulleys instead of handles, so as to be driven by power, the extra for which will be quoted on application. Estimates given for every description of Hoisting Crab Winches and Warehouse Cranes.



WROUGHT IRON PULLEY BLOCKS.

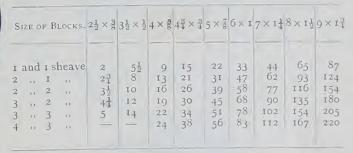
N 6515

These blocks are of the best quality, and have turned shafts, bright sheaves, and are bored. The eye as shown in No. 4 is supplied with the smallest block of each pair ordered.

Diam. Width of sheave. groove.	Snatch block.	sheave block.	sheave block.	sheave block.	sheave block.	Blocks will take chain diam
2½ by ¾ in.	_	3/-	4/-	4/9	-	-
3½ , ½ ,	-	3/6	5/-	5/9	-	_
4 11 8 11	8/-	4/-	6/-	7/6	9/-	
43 11 3 17	9/6	5/-	7/6	9/6	13/6	a in
5 ., 3	11/6	6/3	9/9	12/6	16/-	1
6 ,, I ,,	13/6	7/6	11/6	15/6	20/6	10 0
7 11	16/6	10/-	16/-	22/-	31/-	3 .,
8 ,, 11 ,,	21/-	13/6	22/6	32/-	46/-	170
9 ,, 13 ,,	28/-	19/-	32/-	46/-	65/-	2 ,,

Larger sizes will be quoted for specially on receipt of requirements.

Revised Table giving Test Load in cwts. for each combination of above Blocks.



The above Table must be treated as only approximate, and in no case can its accuracy be guaranteed.

All parts of these pulley blocks are interchangeable.

The actual width of groove is from one-sixteenth to one-eighth more than given to allow for new rope.

Prices with Brass Sheaves on application.

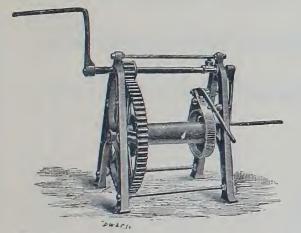
Quotations given for every description of Chain for Builders' and Contractors' use.

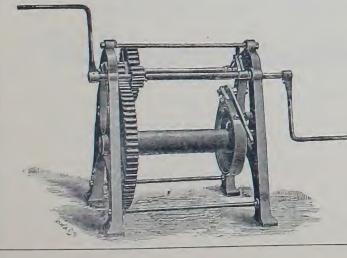
Nº5.



GALVANIZED
FLEXIBLE
STEEL
WIRE ROPE.

Circumference $\frac{3}{8}$ $\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$ $\frac{1}{1}$ $\frac{1}{4}$ $\frac{1}{2}$ $\frac{1}{2}$







MITRE CUTTERS, CRAMPS AND BENCH SCREWS.



IMPROVED CORNER CRAMP.

N 6521.

Size No. 1. No. 2, No. 3.

Will take 17 4 in. mouldings.

Price 2/2 2/10 4/- pair.

The Improved Corner Cramp is intended for gripping securely two sides of a picture frame during the process of nailing together.

CIRCULAR SAW SPINDLE (with Fast Pulley on end).



N 6900.-With white metal bearings and large oil cups.

Ler	igth overall.	Diag	neter of Puller	Diameter of Spindle.	70 1
No. 1	17½ in.	4.7 146 1	2g in.	I in.	28/9 each.
No. 2	23 in.		38 in.	Il in.	40/6 ,,
No. 3	27 In.		43 in.	I to in.	53/

No. 1 Size.

REGISTERED MITRE CUTTING MACHINE.

N 6522.

No. 1 Size.

To cut 2 inch mouldings.

Mitre cutting machine

complete

Extra cutter

... 2/3

No. 2 Size.

To cut 4 inch mouldings.

Mitre cutting machine

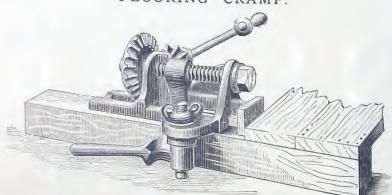
complete

... 20/-Extra cutter

Invaluable to Joiners, Picture frame Makers, and Amateurs No 2 Size

Each machine is carefully adjusted and tested. The moulding is held as shown above, care being taken that it bears against guidepin at back; also that a very light shaving be taken off for the finishing cut.

FLOORING CRAMP.

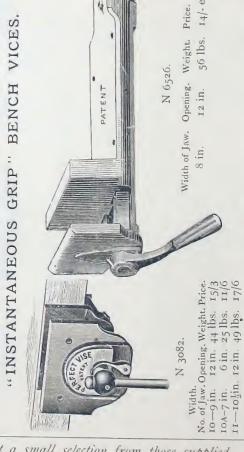


N 6523.—Will take in any size of joist from 1½ to 4 inches ... 14/6 each Second quality, ditto, ditto

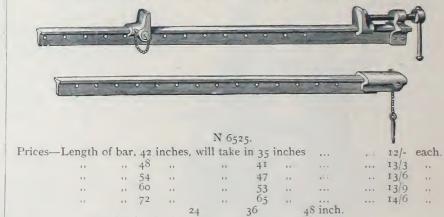


BENCH SCREWS.

		Le Di	ngth ameter	18	20	21 13	22 in	ch-
N 6524.—Best Bright							11/6 ea	ch.
N 4308.—Best Black N 6527.—Iron, with wo	and handle		1 in als	5/3	1 .			r
N 6528.—Beech Wood	, 24 × 2½ i	nch	ig inch				2/3 ,	•



BEST WROUGHT IRON CARPENTERS' T CRAMPS.



PATENT STEEL T CRAMPS

5/9

7/6 each.



				N 4309.						3
Prices-Length	of bar,	36	inches,	will take in	30	inches		241	14/6	each
11	11	42	11	11	36	10			14/6	3 +
11	1.1	48	3.5	8.0	42	11			15/-	3:3
1 1	11	54	8.9	1.7	48	11			15/6	1.7
11	1.0	бо	* 1	8.7	54	* 1			16/-	1.7
11		72	. 11.		66	11			18/-	1.1
	L	eng	thening	bars, 36 in	che	s, 7/6 e	each.			

SASH CRAMP.

Length of bar	18	24	30	36 inch.
N 4310.—Prices	10/3	11/6	12/9	14/- per pair.

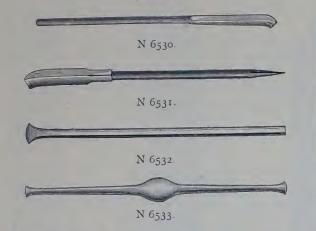
The varieties described represent in many cases but a small selection from those supplied.

Further details will be sent on receipt of requirements.

Lengthening bars 3/9

CONTRACTORS' TOOLS, &c.

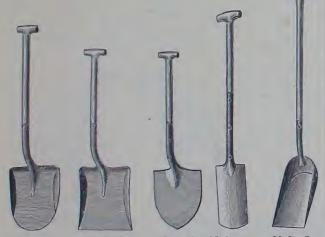
SOLID STEEL CROW AND JUMPER BARS.



N 6530 — $\left\{\frac{1}{2}d$ to $5\frac{1}{2}d$ per lb. according to quantities and sizes.

N $6532.-5\frac{1}{2}$ d to $6\frac{1}{2}$ d., N $6533.-7\frac{1}{2}$ d to 9d.,

SHOVELS, SPADES, &c.



N 6536. N 6537A. N 6538 N 6534. N 6535.

10 11 12 13 14 inches. N 6534 - All steel, round \ 22/6 24/- 26/3 30/3 34/3 dozen nose, Bristol \(2/3 \) 2/6 2/8 3/- 3/4 each.

1 13/6 14/6 15/- 15/9 17/6 dozen N 6535.—All steel, 1/4 1/5 1/6 1/7 1/8 each London \22/6 23/- 24/- 25/3 26/6 dozen. N 6536 -All steel, 2/1 2/2 2/3 2/4 2/6 each. navvy

N 6537A.—Square point Grafting Tool $\begin{cases} 28/9 & 30/- \text{ dozen} \\ 2/10 & 3/- \text{ each.} \end{cases}$

N 6538.—London Mud Scoop ... 31/6 dozen; 3/- each

SOLID STEEL PICKAXES.

STAMPED EYE



Double pointed, 27/- doz. 2/6 each.



PICKAXE HANDLES.

39 in., best English ash or best hickory, 7/- doz ; 8d. each.

GALVANIZED BRICKLAYERS' HOD.



N 6541. Top, 16 × 11 in .. Light, 5/6 ,, 17 × 16 in ... Strong, 9/6

GALVANIZED RIVETTEDBUCKETS



N6542.—Hoop foot & forged ear. 14 inches 12 13 18/3 dozen 16/6 15/-1/5 1/7 1/9 each N6543.—Forged foot & forged ear. 14 inches 12 13 18/6 22/6 dozen 21/-2/-2/2 each. 1/10 N6544.—Extra strong contractors'

solid forged rim and foot 13 in., 33/6 dozen; 3/1 each. N6545.—Straight sides, hoop foot, and forged ears. 13 in., 24/9 dozen; 2/4 each

STONE LEWIS.

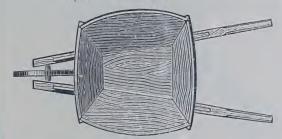
Shackles, Jin. diameter ... 3/6 each ... 4/6 ..

BARROW WHEELS.



Wrought iron and axle, tyre 14 in.) 16 18 inch 10/- 10/9 each N 6553.—Lighter, with cast boss \ 6/and round spokes ...) Thimbles for above, 1/6 pair extra. For cast iron, see page 190

NAVVY BARROWS.



N 6558. - Made of well-seasoned timber, 17/3 each. N 6559.—Ditto ditto stronger, 19/-

STONE HAMMERS.

I to 3 lbs.



All cast steel ... 8d per lb

QUARRY SLEDGE HAMMERS.



All cast steel, 6 lb. and upwards, 6d. per lb. As patterns of Quarry Sledges differ so much, it is desirable to send particulars of faces with order

STABLE OR GARDEN BARROWS.



N 6563.

Strong Wrought iron, galvanized body, painted framework

Price 34/6 each; if with wide tyred wheels, 1/9 extra.

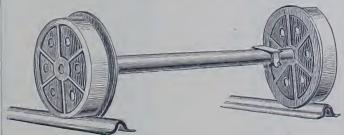
TIPPING SKEPS.



N 6552.

Improved pattern, 1 in plates, angle iron ring at bottom, half round band at top. To contain } cubic yard ... £5 7 6 each ... 7 19 6 9 5 6 "

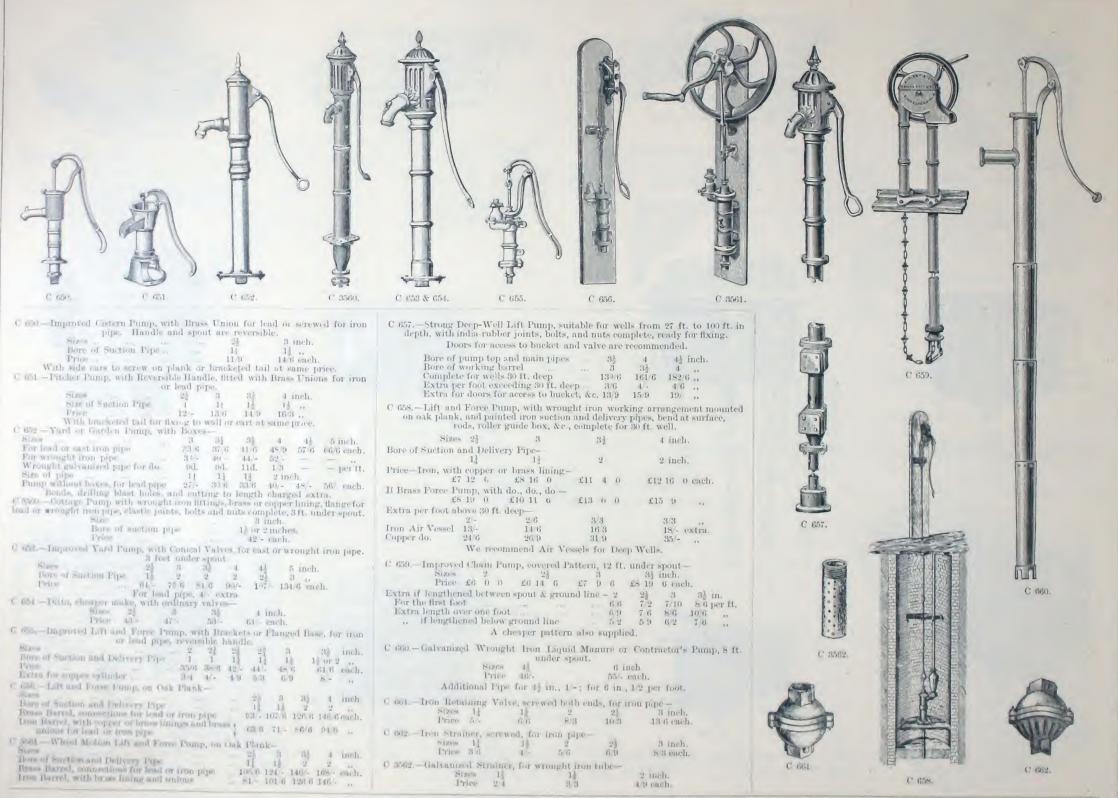
TRUCK WHEELS, AXLES, AND TRAM RAILS.

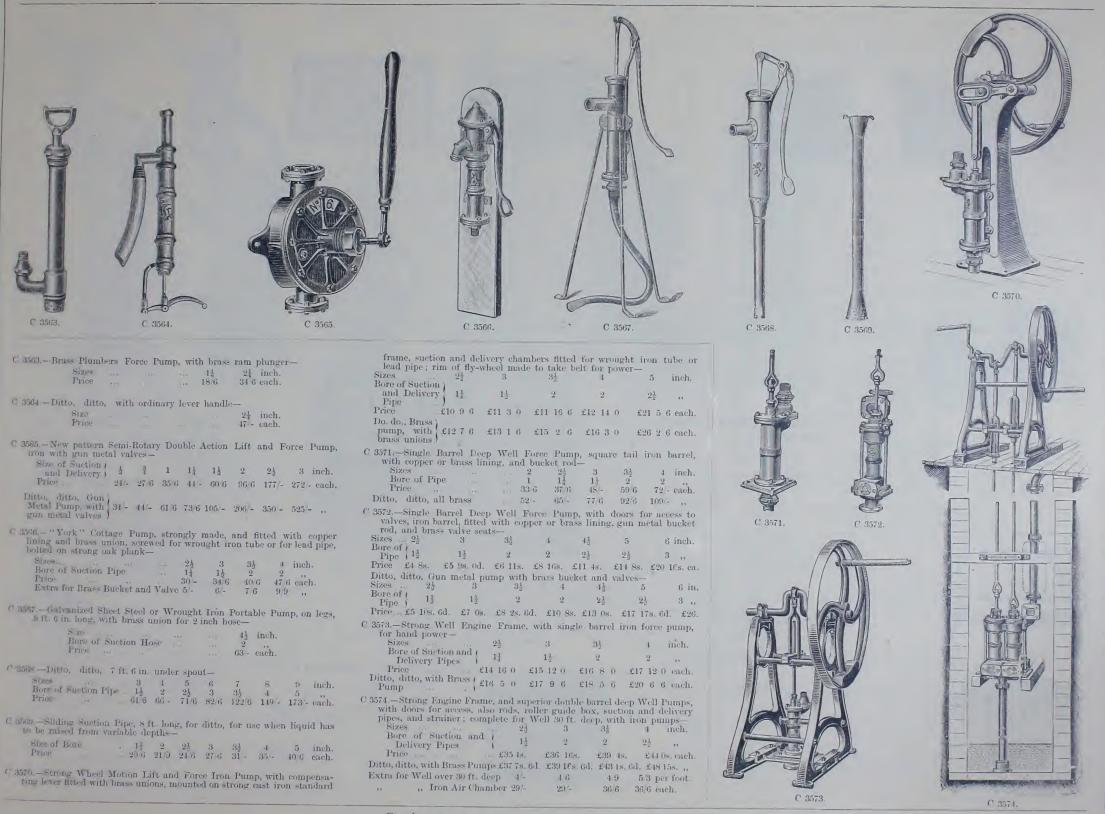


N 6565 - Prices on receipt of requirements.

The varieties described represent in many cases but a small selection from those supplied. Further details and special quotations for large quantities will be sent on receipt of requirements.

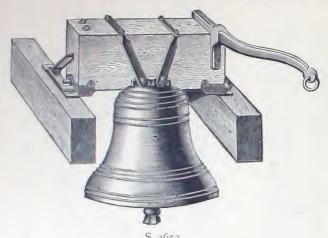
PUMPS.





BELLS, CARRIAGE JACKS, &c.

SCHOOL, DINNER, OR ALARM BELLS.



Hung with wood Stock and Cranked Iron Lever, improved turned Steel Gudgeons, Iron Slings, heavy Gun-metal Bearings in Cast Iron Shoes with hinged covers, and Bolts and Nuts for fixing

Best quality Bells, 1/5½ per lb.

Fittings for 16 in bell. 35/6 39/6 41/-42/6 per set. Weights of bells are about as follows :-

8 9 10 11 12 13 14 15 16 17 18 20 in 10 14 21 30 40 52 70 84 102 118 144 212 lbs.

IMPROVED TELESCOPE



Hung with Wrought Iron Stock and Cranked Lever, Cast Iron Journals (Gun-metal Bearings), with long Pins and Nuts for fixing. Best quality bells, 1/53 per lb.

Fittings for-

8 9 10 11 12 13 14 in bell. 11/- 11/- 11/- 13/6 15/- 15/9 17/6 per set.

Cheaper fittings also supplied without Gun-Metal bearings.

Hung in Cast Malleable Iron Frame for fixing against a building. The above drawing represents the bell as rung from the outside, but the axle may be so arranged that the bell can be rung from the inside of the building

Best quality bells, 1/53 per lb.

Fittings for 10 11 30/-31/6 39/6 per set.

To ring inside with extended axle through wall, 4/- extra and upwards.

In ordering, the thickness of the wall should be given so that bolts and nuts of a suitable length for flxing may be sent.

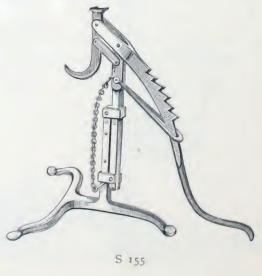
WROUGHT IRON CARRIAGE



This Jack will lift a carriage, cart, or wagon with the greate t ea e, and is universally commended for its trength and lightness, being made entirely of wrought and malleable iron

		light carriages		price	13/9	each.
		heavy			18/-	497
NO.	3 - For	extra heavy cari	riages	- 11	23/3	

LIFTING JACK.



Price 10/6 12/6 14/6 each

OAK SADDLE AIRER.



This is a useful portable stand for airing and drying saddles, firmly holding saddles in position without injury whilst being dried.

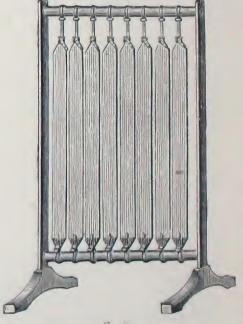
Price, 21/6 each.

HARNESS CLEANING HORSE.



S 153 On wheels, iron frame, wood top, and two wood shelves, painted Price, 40/- each.

GIRTH STRETCHER.



S 157.

With galvanized hooks and leather straining straps. Price, 23/6 each.

Iron Girth Stretcher, with straps, japanned black. Price, 8/6 each

Ditto, ditto, scarlet, blue, or galvanized. Price, 10/6 each

Further details will be sent on receipt of requirements.



S 160.—Scoop and Chain
13/9 dozen.
1/4 each.



S 161.—Guide, 12/3 dozen. 1/2 each.



S 162 — Tank on wheels, to remove either from the front (as drawn), back, or side of closet, galvanized body ... 23/9 each.

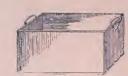
Ditto, without wheels, but straps carried under bottom, to slide, 20/6 each



S 163.—Pail.

To hold to charges ... 32/- dozen; 3/- each. To hold 20 charges ... 38/- ... 3/7 ...

Covers for ditto ... 19/- ,, 1/9 ,,



S 164.—Box with handles, $19\frac{1}{2}$ in \times 12 in. \times 10 in deep, 5/9 each.

Other sizes to order.



S 168.

Improved Corn Meter

The corn being put into the hopper from the loft, it can be drawn off as required, by means of the shut off valve, so that a proper quantity may be taken without waste.

 Meter, quarter peck
 ...
 9/6 each.

 Hopper
 ...
 4/6
 ,,

 Supply Pipe
 ...
 1/3 per foot.



S 3665.

Galvanized Rectangular Corn Bin, with hinged cover, and hasp for padlock.

Sizes 4 6 8 12 16 bushel.

23/9 27/- 32/9 40/6 51/6 each.

Divisions ... 3/6 each extra.



S 170.

Galvanized Circular Corn Bin, with hinged cover, and hasp for padlock.

Sizes 2 4 6 8 bushel.



S 171.

Wrought Iron Sack Truck, 12/6 each.

If with India Rubber Tyres,

17/6 each

Wood ditto, 17/6 or 21/6 each.

Further details will be sent on receipt of requirements.

